

# phpPoA2



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<a href="#">Define NS_SAML2_PROTOCOL</a>	0
<a href="#">Class SimpleSAMLphpAuthnEngine</a>	0
<a href="#">Var \$attributes</a>	0
<a href="#">Var \$simplesaml</a>	0
<a href="#">Var \$status</a>	0
<a href="#">Method authenticate</a>	0
<a href="#">Method configure</a>	0
<a href="#">Method getAttribute</a>	0
<a href="#">Method getAttributes</a>	0
<a href="#">Method isAuthenticated</a>	0
<a href="#">Method logout</a>	0
<a href="#">SourceIPAddrAuthzEngine.php</a>	0
<a href="#">Define SOURCEADDR_BEFORE_FILTERS</a>	0
<a href="#">SourceIPAddrConfigurator.php</a>	0
<a href="#">papi1.5-ip-authz.php</a>	0
<a href="#">Function ipHook</a>	0
<a href="#">Class SourceIPAddrAuthzEngine</a>	0
<a href="#">Var \$valid_hooks</a>	0
<a href="#">Method authorize</a>	0
<a href="#">Method getAuthorizedList</a>	0
<a href="#">Method isAuthorized</a>	0
<a href="#">Method revoke</a>	0
<a href="#">Class SourceIPAddrConfigurator</a>	0
<a href="#">Var \$mandatory_options</a>	0
<a href="#">Method getAllowed</a>	0
<a href="#">Method getDenied</a>	0
<a href="#">Appendix A - Class Trees</a>	0
<a href="#">phpPoA2</a>	0

<a href="#">INSTALL</a>	0
<a href="#">README</a>	0

# AutoPoA.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# definitions.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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AS\_T = 1 [*line 80*]

**'AS' type redirection in the PAPI 1.5 protocol.**

AUTHN\_FAILED = false [*line 35*]

**Authentication failed.**

AUTHN\_SUCCESS = true [*line 30*]

**Authentication succeeded.**

AUTHZ\_FAILED = false [*line 45*]

**Authorization failed.**

AUTHZ\_SUCCESS = true [*line 40*]

**Authorization succeeded.**

CONFIG\_ERR = 2 [*line 60*]

**A configuration related error.**

GPOA\_T = 0 [*line 75*]

**'GPoA' type redirection in the PAPI 1.5 protocol.**

INVITE\_ERR = 3 [*line 65*]

**An invitation related error.**

NOAUTH\_ERR = 0 [*line 50*]

**Authentication failed error.**

SYSTEM\_ERR = 1 [*line 55*]

**A system related error.**

USER\_ERR = 4 [*line 70*]

**An error triggered by the user.**



# AuthenticationEngine.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# PAPICrypt.php

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# GenericConfigurator.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# GenericEngine.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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# Hook.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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# LitePoA.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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# PoA.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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include\_once ["LitePoA.php"](#)*[line 41]*

include\_once ["AutoPoA.php"](#)*[line 40]*

require\_once ["PoAEventHandler.php"](#)*[line 39]*

require\_once ["PoAUtils.php"](#)*[line 38]*

# PoAConfigurator.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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# PoAEventHandler.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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# PoAException.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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# PoALog.php

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- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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# PoAUtills.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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# papi1.5-slo-extra.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

include ["./PoA.php"](#)*[line 9]*

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

# papi1.5-slo.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

include ["./PoA.php"](#)*[line 9]*

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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# authz\_convert.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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ROOT = 'PATH\_TO\_YOUR\_DB\_DIR' [*line 30*]

**Authorized DB converter tool from phpPoA1 to phpPoA2.**

# invite\_convert.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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## Class AuthenticationEngine

[line [31](#)]

**Abstract authentication engine.**

- **Package** phpPoA2
- **Abstract Element**

**AuthenticationEngine::\$engine\_type**



*mixed* = "Authn" [[line 33](#)]

- **Access** protected

*boolean* function AuthenticationEngine::authenticate() [[line 41](#)]

**Trigger the authentication of the user in the current context. May perform HTTP redirections or any other procedure to gather the authentication status if the user, so don't expect it to return control once called.**

- **Abstract Element**
- **Access** public

*string|array* function AuthenticationEngine::getAttribute(\$name, [\$namespace = ""]) [[line 65](#)]  
**Function Parameters:**

- *name* **\$name** The name of the attribute.
- *namespace* **\$namespace** The namespace of the attribute.

**Get an specific attribute for the current user, by specifying its name and namespace. May trigger some attribute query procedure.**

- **Abstract Element**
- **Access** public

*array* function AuthenticationEngine::getAttributes() [[line 55](#)]

**Get an associative array with the set of common attributes for the current user. May trigger some attribute recollection.**

- **Abstract Element**
- **Access** public

*boolean* function AuthenticationEngine::isAuthenticated() [*line* [48](#)]

**Check the current authentication status withing this context. Does not trigger any authentication procedure.**

- **Abstract Element**
- **Access** public

*void* function AuthenticationEngine::logout([\$slo = false]) [*line* [72](#)]

**Function Parameters:**

- *slo* **\$slo** Whether to perform the logout globally (Single Log Out) or not. Defaults to local.

**Perform a logout (locally or global).**

- **Abstract Element**
- **Access** public

## Class AuthorizationConfigurator

[*line* [26](#)]

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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- **Abstract Element**
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*boolean* function AuthorizationConfigurator::getDefaultBehaviour() [*line 33*]

**Determines the default behaviour of the authorization engine, whether it should authorize or not if no pattern (nor allowed nor denied) matches.**

- **Access** public

## Class AuthorizationEngine

[*line 26*]

- **Package** phpPoA2

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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- **Abstract Element**
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## **AuthorizationEngine::\$engine\_type**

*mixed* = "Authz" [*line 28*]

- **Access** protected

*boolean* function AuthorizationEngine::authorize(\$user, \$attrs, \$ref, [\$expires = 0]) [*line 47*]

### **Function Parameters:**

- **\$user**
- **\$attrs**
- **\$ref**
- **\$expires**

- **Abstract Element**
- **Access** public

*array* function AuthorizationEngine::getAuthorizedList() [*line 42*]

- **Abstract Element**
- **Access** public

*boolean* function AuthorizationEngine::isAuthorized(\$user, \$attrs) [*line 37*]

**Function Parameters:**

- *user* **\$user** The string that identifies the user.
- *attrs* **\$attrs** All attributes related to the user.

**Check authorization for the specified user.**

- **Abstract Element**
- **Access** public

*boolean* function AuthorizationEngine::revoke(\$mail) [*line 52*]

**Function Parameters:**

- **\$mail**

- **Abstract Element**
- **Access** public

# Class AutoPoA

[[line 30](#)]

Class that automatically redirects to error pages if any error is detected.

- **Package** phpPoA2

*void* function AutoPoA::authenticate() [[line 32](#)]

- **Access** public

*void* function AutoPoA::isAuthorized(\$user, \$attrs, [\$engine = null]) [[line 40](#)]

## ***Function Parameters:***

- **\$user**
- **\$attrs**
- **\$engine**

- **Access** public

# Class GenericConfigurator

[[line 31](#)]

**Generic configuration class.**

- **Package** phpPoA2
- **Abstract Element**

## GenericConfigurator::\$cfg

*mixed* = array() [[line 33](#)]

- **Access** protected

## GenericConfigurator::\$mandatory\_options

*mixed* = array() [[line 34](#)]

- **Access** protected

Constructor *void* function GenericConfigurator::\_\_construct(\$file, \$site) [[line 42](#)]

### **Function Parameters:**

- *file* **\$file** The file which stores the configuration.
- *site* **\$site** The section of the configuration that applies for the current site.

## **Main constructor.**

- **Throws** PoAException if any error occurs.

- **Access** public

*void* function GenericConfigurator::configure(\$file, \$site) [*line* [59](#)]

**Function Parameters:**

- *file* **\$file** The file which stores the configuration.
- *site* **\$site** The section of the configuration that applies for the current site.

**Read the configuration from the specified file and section.**

- **Throws** PoAException if any error occurs.
- **Access** protected

*boolean* function GenericConfigurator::validate([\$mandatory = null]) [*line* [84](#)]

**Function Parameters:**

- *mandatory* **\$mandatory** Optional. An array of mandatory attributes that should be searched within the current configuration.

**Check all mandatory attributes are set.**

- **Throws** PoAException if any error occurs.
- **Access** public



# Class GenericEngine

[[line 31](#)]

A generic engine class.

- **Package** phpPoA2
- **Abstract Element**

## GenericEngine::\$cfg

*mixed* = [[line 33](#)]

- **Access** protected

## GenericEngine::\$engine\_type

*mixed* = [[line 36](#)]

- **Access** protected

## GenericEngine::\$handler

*mixed* = [[line 37](#)]

- **Access** protected

## GenericEngine::\$hooks

*mixed* = array() [[line 34](#)]

- **Access** protected

#### GenericEngine::\$valid\_hooks

*mixed* = array() [*line* [35](#)]

- **Access** protected

Constructor *void* function GenericEngine::\_\_construct(\$file, \$site) [*line* [44](#)]

#### **Function Parameters:**

- *file* **\$file** The path to the configuration file. Can be in the include path.
- *section* **\$site** The section of the configuration file, if any.

#### **Main constructor for the engine.**

- **Access** public

*boolean* function GenericEngine::addHook(\$name, \$hook) [*line* [71](#)]

#### **Function Parameters:**

- *name* **\$name** The name of the hook.
- *hook* **\$hook** A mixed object. Can be the name of a function (string) or an array with two elements: the former, the name of a class or an object, and the latter the name of the method.

**Adds a function to the specified hook, which will be executed at some point of the code.**

- **Access** public

*void* function GenericEngine::clean() [*line* [150](#)]

**Unregister error and exception handlers. Use it only for methods not declared in the interface that previously called registerHandler() method.**

- **Access** protected

*void* function GenericEngine::configure(\$file, \$section) [*line* [54](#)]

**Function Parameters:**

- *file* **\$file** The path to the configuration file. Can be in the include path.
- *section* **\$section** The section of the configuration file, if any.

**Configure the engine.**

- **Access** public

*void* function GenericEngine::registerHandler() [*line* [140](#)]

**Register error and exception handlers for logging. Use it only for methods not declared in the interface that could trigger errors.**

- **Access** protected

*boolean* function GenericEngine::removeHook(\$name, \$hook) [*line* [93](#)]

**Function Parameters:**

- *name* **\$name** The name of the hook.
- *hook* **\$hook** A mixed object. Can be the name of a function (string) or an array with two elements: the former, the name of a class or an object, and the latter the name of the method.

**Removes a function from the specified hook.**

- **Access** public

*void* function GenericEngine::runHooks(\$hook, &\$params) [[line 118](#)]

**Function Parameters:**

- *hook* **\$hook** The name of the hook.
- *params* **&\$params** An array with all params (in order) that must be passed to the function.

**Run all hooks attached to an specific action.**

- **Access** protected

*void* function GenericEngine::setHandler(\$handler) [[line 132](#)]

**Function Parameters:**

- *handler* **\$handler** The event handler to use.

**Set the event handler to the one specified.**

- **Access** public

# Class Hook

[line [30](#)]

Hook class that allows to run a function or a method specified by their name.

- **Package** phpPoA2

**Hook::\$\_callable\_name**

*mixed* = [line [33](#)]

- **Access** protected

**Hook::\$\_hook**

*mixed* = [line [32](#)]

- **Access** protected

**Hook::\$\_name**

*mixed* = [line [34](#)]

- **Access** protected

Constructor *boolean* function Hook::\_\_construct(\$hook) [[line 42](#)]

**Function Parameters:**

- *hook* **\$hook** The name of a function or an array specifying a class and its method.

**Build a new hook.**

- **Throws** PoAException if something goes wrong.
- **Access** public

*string* function Hook::getName() [[line 120](#)]

**Get the name of the hook.**

- **Access** public

*boolean* function Hook::run(&\$args) [[line 103](#)]

**Function Parameters:**

- *args* **&\$args** An array with all the params the function receives.

**Run the hook with the specified params.**

- **Access** public

# Class LitePoA

[line 33]

Class that embeds all functionality (authentication, attribute collection and authorization) in one method, just like older versions of phpPoA.

- **Package** phpPoA2
- **Deprecated** This class is for backwards compatibility. Please avoid using it.

## LitePoA::\$handler

*mixed* = [line 35]

- **Access** protected

A function LitePoA::checkAccess() [line 55]

**A shortcut for the whole authentication and authorization process.**

User will be authenticated, his attributes collected and then he will be checked for authorization with the identifier built with the ID builder function.

- **Deprecated** This method is for backwards compatibility. Please avoid using it.
- **Access** public

void function LitePoA::setIDBuilder(\$handler) [line 43]

**Function Parameters:**

- *handler* **\$handler** The name of the function.

Set an attribute handler to build identifiers for the users according to their attributes.  
Method must receive a hash of attributes ("name" => "value").

- **Access** public

## Class PAPICrypt

*[line [29](#)]*

Cryptographic routines for PAPI protocol v1.

- **Package** phpPoA2

### PAPICrypt::\$privkey

*mixed = [line [34](#)]*

- **Access** protected

### PAPICrypt::\$privkeylen

*mixed = [line [35](#)]*

- **Access** protected

### PAPICrypt::\$pubkey



*mixed* = [[line 32](#)]

- **Access** protected

#### **PAPICrypt::\$pubkeylen**

*mixed* = [[line 33](#)]

- **Access** protected

#### **PAPICrypt::\$symmetric**

*mixed* = [[line 38](#)]

- **Access** protected

Constructor *void* function PAPICrypt::\_\_construct([\$symmetric = ""], [\$pubkey = ""],  
[\$privkey = ""], [\$passphrase = ""]) [[line 43](#)]

#### **Function Parameters:**

- **\$symmetric**
- **\$pubkey**
- **\$privkey**
- **\$passphrase**

- **Access** public

```
void function PAPICrypt::decrypt($input) [line 248]
```

### Function Parameters:

- **\$input**
- **Access** public

```
void function PAPICrypt::decrypt3DES($input) [line 206]
```

### Function Parameters:

- **\$input**
- **Access** public

`void` function `PAPICrypt::decryptAES($input)` [line [172](#)]

### Function Parameters:

- **\$input**
- **Access** public

```
void function PAPICrypt::encrypt($input) [line 223]
```

### Function Parameters:

- **\$input**

- **Access** public

*void* function PAPICrypt::encrypt3DES(\$input) [*line* [189](#)]

***Function Parameters:***

- **\$input**

- **Access** public

*void* function PAPICrypt::encryptAES(\$input) [*line* [155](#)]

***Function Parameters:***

- **\$input**

- **Access** public

*void* function PAPICrypt::endSymmetric(\$module) [*line* [147](#)]

***Function Parameters:***

- **\$module**

- **Access** protected

*void* function PAPICrypt::initialize3DES() [*line* [128](#)]

- **Access** protected

*void* function PAPICrypt::initializeAES() [[line 109](#)]

- **Access** protected

*void* function PAPICrypt::setPrivateKey(\$privkey, [\$passphrase = ""]) [[line 85](#)]  
**Function Parameters:**

- **\$privkey**
- **\$passphrase**

- **Access** public

*void* function PAPICrypt::setPublicKey(\$pubkey) [[line 61](#)]  
**Function Parameters:**

- **\$pubkey**

- **Access** public

*void* function PAPICrypt::setSymmetricKey(\$symmetric) [[line 54](#)]  
**Function Parameters:**

- **\$symmetric**

- **Access** public

## Class PoA

[[line 47](#)]

**Standard class that implements all the functionality of the phpPoA.**

- **Package** phpPoA2

### PoA::\$attributes

*mixed* = [[line 52](#)]

- **Access** protected

### PoA::\$authn\_engine

*mixed* = [[line 51](#)]

- **Access** protected

### PoA::\$authz\_engines

*mixed* = [[line 53](#)]

- **Access** protected

#### **PoA::\$autoload**

*mixed* = [[line 55](#)]

- **Access** protected

#### **PoA::\$cfg**

*mixed* = [[line 49](#)]

- **Access** protected

#### **PoA::\$db\_manager**

*mixed* = [[line 54](#)]

- **Access** protected

#### **PoA::\$handler**

*mixed* = [[line 56](#)]

- **Access** protected

#### **PoA::\$local\_site**

*mixed* = [[line 48](#)]

- **Access** protected

## PoA::\$log

*mixed* = [line [50](#)]

- **Access** protected

Constructor *void* function PoA::\_\_construct(\$site, [\$file = null]) [line [63](#)]

### **Function Parameters:**

- *site* **\$site** The identifier to determine which configuration to apply.
- *file* **\$file** The path to the configuration file.

**Main constructor. Configures the PoA and performs initialization.**

- **Access** public

*true* function PoA::addHook(\$name, \$hook) [line [128](#)]

### **Function Parameters:**

- *name* **\$name** The name of the hook. Refer to each individual engine for a complete list of available hooks.
- *hook* **\$hook** A hook object with the function or method to attach.

**Attach a hook object to the appropriate entry point of the available authentication or authorization engines.**

- **Access** public

*AUTHN\_SUCCESS* function PoA::authenticate() [*line 179*]

**Perform a federated login for the user.**

- **Access** public

*AUTHZ\_SUCCESS* function PoA::authorize(\$user, \$attrs, [\$reference = null], [\$expires = 0], [\$engine = null]) [*line 376*]

**Function Parameters:**

- *user* **\$user** The subject of authorization.
- *attrs* **\$attrs** The attributes of the user.
- *reference* **\$reference** An internal reference that may be valuable for the engine, typically referring to a previous invitation or similar.
- *expires* **\$expires** The time (POSIX) when authorization will expire. Use 0 if authorization should never expire. Defaults to 0.
- *engine* **\$engine** The authorization engine(s) to use. All engines are used if none specified. If more than one engine should be checked then this must be an array.

**Authorize a given subject with the data retrieved from federated login.**

Multiple authorization engines are supported, so authorization will be done in all of them.

- **Access** public

*void* function PoA::clean() [*line 114*]



- **Access** protected

the function PoA::getAttribute(\$name, \$namespace) [[line 266](#)]

**Function Parameters:**

- *name* **\$name** The name of the attribute.
- *namespace* **\$namespace** The namespace of the attribute, if any.

**Get the value (or values) of an attribute, if present.**

- **Access** public

an function PoA::getAttributes() [[line 243](#)]

**Retrieve the attributes provided by the user when logged in.**

- **Access** public

The function PoA::getAuthorizationEngines([\$engine = null]) [[line 457](#)]

**Function Parameters:**

- *engine* **\$engine** The name of the authorization engine to retrieve. If more than one engine should be returned then this must be an array.

**Returns the authorization engines configured for the current PoA, or the one specified.**

- **Access** public

An function PoA::getAuthorizationLevels(\$user, \$attributes) [[line 491](#)]

**Function Parameters:**

- *user* **\$user** The user identifier.
- *attributes* **\$attributes** An array of attributes available for the user.

**Get the authorization levels that match for the user specified, according to the configuration.**

An array with the names of the levels matching the user is returned. An empty array is returned if no match is found.

- **Access** public

*AUTHN\_SUCCESS* function PoA::isAuthenticated() [[line 214](#)]

**Query the current status of the user in the federation.**

- **Access** public

*AUTHZ\_SUCCESS* function PoA::isAuthorized(\$user, \$attrs, [\$engine = null]) [[line 319](#)]

**Function Parameters:**

- *user* **\$user** The subject queried.
- *attrs* **\$attrs** The attributes of the user.
- *engine* **\$engine** The authorization engine(s) to use. All engines are used if none specified. If more than one engine should be checked then this must be an array.

**Perform authorization for the a given subject.**

Multiple authorization engines are supported, so authorization will succeed if any of these succeeds.

- **Access** public

*true* function PoA::logout(\$slo) [[line 288](#)]

**Function Parameters:**

- *slo* **\$slo** Whether to perform a Single Log Out or a local logout.

**Remove the user's session and trigger a logout for the specified authentication protocol.**

- **Access** public

*true* function PoA::removeHook(\$name, \$hook) [[line 153](#)]

**Function Parameters:**

- *name* **\$name** The name of the hook. Refer to each individual engine for a complete list of available hooks.
- *hook* **\$hook** The hook object which shall be removed.

**Remove a hook from the specified entry point of the available authentication or authorization engines.**

- **Access** public

*true* function PoA::revoke(\$mail, [\$engine = null]) [*line* [416](#)]

**Function Parameters:**

- *mail* **\$mail** The e-mail of the user.
- *engine* **\$engine** The authorization engine(s) to use. All engines are used if none specified. If more than one engine should be checked then this must be an array.

**Revoke authorization for a given subject identified by an e-mail.**

- **Access** public

## Class PoAConfigurator

[*line* [30](#)]

**Main configurator for the phpPoA.**

- **Package** phpPoA2

**PoAConfigurator::\$mandatory\_options**

*mixed* = array('LogFile',  
                  'LogLevel') [*line* [32](#)]

- **Access** protected

Constructor *void* function PoAConfigurator::\_\_construct(\$site, [\$file = null]) [*line* [35](#)]

***Function Parameters:***

- **\$site**
- **\$file**

- **Access** public

*void* function PoAConfigurator::getAuthnEngine() [*line* [93](#)]

- **Access** public

*void* function PoAConfigurator::getAuthnEngineConfFile() [*line* [105](#)]

- **Access** public

*void* function PoAConfigurator::getAuthzEngineConfFile(\$engine) [*line* [109](#)]

***Function Parameters:***

- **\$engine**

- **Access** public

*void* function PoAConfigurator::getAuthzEngines() [*line* [97](#)]

- **Access** public

*void* function PoAConfigurator::getAuthzLevels() [*line* [113](#)]

- **Access** public

*void* function PoAConfigurator::getInviteErrorURL() [*line* [89](#)]

- **Access** public

*void* function PoAConfigurator::getLanguage() [*line* [73](#)]

- **Access** public

*void* function PoAConfigurator::getLogFile() [*line* [65](#)]

- **Access** public

*void* function PoAConfigurator::getLogLevel() [*line* [77](#)]

- **Access** public

*void* function PoAConfigurator::getNoAuthErrorURL() [*line* [81](#)]

- **Access** public

*void* function PoAConfigurator::getSystemErrorURL() [*line* [85](#)]

- **Access** public

*void* function PoAConfigurator::isDebug() [*line* [69](#)]

- **Access** public

## Class PoAEventHandler

[*line* [30](#)]

**Class to handle events inside the library.**

- **Package** phpPoA2

Constructor *void* function PoAEventHandler::\_\_construct(\$site, [\$log = null], [\$debug = false]) [*line* [39](#)]

### ***Function Parameters:***

- **\$site**
- **\$log**
- **\$debug**

**Main constructor.**

- **Access** public

`void function PoAEventHandler::abort($code, $message) [line 64]`

**Function Parameters:**

- **\$code**
- **\$message**

**Finish execution and print an error message with the current backtrace.**

- **Access** public

`void function PoAEventHandler::autoloadHandler($class_name) [line 83]`

**Function Parameters:**

- **\$class\_name**

**Override `__autoload` standard function to allow loading classes dinamically.**

`void function PoAEventHandler::errorHandler($code, $message, $file, $line) [line 116]`

**Function Parameters:**

- *code* **\$code** The error code.
- *message* **\$message** The error message.
- *file* **\$file** The file that triggered the error.
- *line* **\$line** The line of the file where the error was triggered.

**A generic error handler that logs the error message.**

- **Access** public



*void function PoAEventHandler::exceptionHandler(\$exception) [line [105](#)]*

***Function Parameters:***

- *exception* **\$exception** The caught exception.

**A generic exception handler that logs the exception message.**

- **Access** public

*void function PoAEventHandler::setDebug(\$debug) [line [57](#)]*

***Function Parameters:***

- *debug* **\$debug** A boolean value telling whether to make debugging active or not.

**Set debugging mode.**

- **Access** public

*void function PoAEventHandler::setLogger(\$log) [line [49](#)]*

***Function Parameters:***

- *log* **\$log** The logger to use.

**Set the logger.**

- **Access** public

## Class PoAException

[*line* [30](#)]

Exception handler class for the phpPoA.

- **Package** phpPoA2

Constructor *void* function PoAException::\_\_construct(\$message, \$code, [\$args = null]) [*line* [33](#)]

**Function Parameters:**

- **\$message**
- **\$code**
- **\$args**

- **Access** public

*void* function PoAException::\_\_toString() [*line* [40](#)]

- **Access** public

# Class PoALog

[line [30](#)]

A simple class to write log messages to a file.

- **Package** phpPoA2

Constructor *void* function PoALog::\_\_construct(\$level, \$file) [line [39](#)]

**Function Parameters:**

- *level* **\$level** The level of this log.
- *file* **\$file** The file where to write messages.

**Build a new logger.**

- **Access** public

*integer* function PoALog::getLogLevel() [line [72](#)]

**Get the current log level.**

- **Access** public

*void* function PoALog::write(\$msg, [\$level = E\_USER\_NOTICE]) [line [58](#)]

**Function Parameters:**

- *msg* **\$msg** The message to write.

- *level* **\$level** The level of the message.

**Write a message to the log file if the current log level allows it.**

- **Access** public

## Class PoAUtils

[line [27](#)]

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es) >
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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*string* function PoAUtils::lang\_code(\$filename) [line [46](#)]

#### ***Function Parameters:***

- *filename* **\$filename** The name of the file.

**Return the language code identifying applicable to a messages file.**

- **Static**
- **Access** public

*string* function PoAUtils::msg(\$s, [\$args = array()]) [*line* [35](#)]

#### ***Function Parameters:***

- *s* **\$s** The identifier of the message.
- *args* **\$args** An array of arguments that the message expects.

**Return the internationalized message identified by the code 's'.**

- **Static**
- **Access** public

# AttributeFilterAuthzEngine.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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ATTRIBUTE\_BEFORE\_FILTERS = "ATTRIBUTE\_BEFORE\_FILTERS" [*line 37*]

**This hook is executed right after retrieving the arrays of allowed and denied attributes that will be checked immediately.**

It can be used to configure the filters on runtime and modify the user's attributes. The hook receives the attributes, and the allowed and denied attribute arrays. Functions for this hook must be defined like this:

```
function attributeBeforeFilterHook(&$attrs, &$allowed, &$denied);
```

Please bear in mind that hooks must return TRUE or they'll keep other hooks from executing.

# AttributeFilterConfigurator.php

- **Package** phpPoA2
- **Sub-Package** AttributeFilterAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es) >
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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## papi1.5-attr-authz.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Sub-Package** AttributeFilterAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

*void function attrHook(&\$attrs, &\$allowed, &\$denied) [line 17]*

**Function Parameters:**

- **&\$attrs**
- **&\$allowed**
- **&\$denied**

*include ["./PoA.php"](#) [line 10]*

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

## Class AttributeFilterAuthzEngine

*[line 46]*



**Authorization engine that works by checking the attributes of the user. The first match of an attribute against one of the filters will trigger the authorization result, no matter if it's positive or negative.**

- **Package** phpPoA2
- **Sub-Package** AttributeFilterAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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#### **AttributeFilterAuthzEngine::\$valid\_hooks**

*mixed* = array(ATTRIBUTE\_BEFORE\_FILTERS) [*line* [48](#)]

- **Access** protected

*void* function AttributeFilterAuthzEngine::authorize(\$user, \$attrs, \$ref, [\$expires = 0]) [*line* [93](#)]

#### **Function Parameters:**

- **\$user**
- **\$attrs**
- **\$ref**

- **\$expires**

- **Access** public

*void* function AttributeFilterAuthzEngine::getAuthorizedList() [*line* [86](#)]

- **Access** public

*void* function AttributeFilterAuthzEngine::isAuthorized(\$user, \$attrs) [*line* [50](#)]

***Function Parameters:***

- **\$user**
- **\$attrs**

- **Access** public

*void* function AttributeFilterAuthzEngine::revoke(\$mail) [*line* [97](#)]

***Function Parameters:***

- **\$mail**

- **Access** public

# Class AttributeFilterConfigurator

[line 33]

Configurator for the Attribute Filter Authorization Engine.

- **Package** phpPoA2
- **Sub-Package** AttributeFilterAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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## AttributeFilterConfigurator::\$mandatory\_options

*mixed* = array("Allowed", "Denied") [line 35]

- **Access** protected

*array* function AttributeFilterConfigurator::getAllowedAttributes() [line 42]

**Returns an array of attributes that would be allowed if their values match any of the patterns for each attribute.**

- **Access** public

*array* function AttributeFilterConfigurator::getDeniedAttributes() [*line* [51](#)]

**Returns an array of attributes that would be denied if their values match any of the patterns for each attribute.**

- **Access** public

# ASN1.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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TAG\_BER = 0x00 [*line 31*]

## **Basic tags.**

TAG\_BITSTRING = 0x03 [*line 34*]

TAG\_BOOLEAN = 0x01 [*line 32*]

TAG\_INTEGER = 0x02 [*line 33*]

TAG\_SEQUENCE = 0x30 [*line 40*]

## **Constructed tags.**

# RSAPrivateKey.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2011 RedIRIS, <http://www.rediris.es/>

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# RSAPublicKey.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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PUBLIC\_KEY\_OID = "1.2.840.113549.1.1.1" [[line 30](#)]

**The OID for public keys.**

## Class ASN1

[[line 50](#)]

**This class implements ASN.1 encoding.**

Please, be aware that this class is INCOMPLETE, as it is intended for BER/DER encoding primarily.

- **Package** phpPoA2
- **Sub-Package** crypto

### ASN1::\$tag

*mixed* = [line [52](#)]

- **Access** public

### ASN1::\$value

*mixed* = [line [53](#)]

- **Access** public

Constructor *void* function ASN1::\_\_construct([\$tag = 0x00], [\$value = "]) [line [58](#)]

#### **Function Parameters:**

- **\$tag**
- **\$value**

**Build a new ASN1 from its tag and value.**

- **Access** public

*void* function ASN1::bin2int(\$bin) [line [260](#)]

#### **Function Parameters:**



- **\$bin**

**Decode an integer from its binary representation.**

- **Access** protected

*void function ASN1::decode(&\$buffer) [line [97](#)]*

**Function Parameters:**

- **&\$buffer**

**Decode an object in ASN.1 format.**

- **Access** public

*void function ASN1::encode() [line [66](#)]*

**Encode this object into ASN.1.**

- **Access** public

*void function ASN1::getInteger() [line [181](#)]*

**Get the integer value of this ASN.1.**

- **Access** public

*void function* ASN1::getTag() [*line* [144](#)]

**Get the tag of this ASN.1.**

- **Access** public

*void function* ASN1::getValue() [*line* [151](#)]

**Get the binary value of this ASN.1.**

- **Access** public

*void function* ASN1::getValues() [*line* [195](#)]

**Get the sequence of values stored in this ASN.1.**

- **Access** public

*void function* ASN1::int2bin(\$int) [*line* [275](#)]

**Function Parameters:**

- **\$int**

**Encode an integer in binary representation.**

- **Access** protected

*void function ASN1::readByte(&\$buffer) [line [237](#)]*

***Function Parameters:***

- **&\$buffer**

**Read first byte from the buffer and move the internal pointer.**

- **Access** protected

*void function ASN1::readBytes(&\$buffer, \$length) [line [228](#)]*

***Function Parameters:***

- **&\$buffer**
- **\$length**

**Read n bytes from a buffer and mov the internal pointer.**

- **Access** protected

*void function ASN1::setInteger(\$int) [line [188](#)]*

***Function Parameters:***

- **\$int**

**Set the value of this ASN.1 from an integer.**

- **Access public**

*void function* ASN1::setValue(\$value) [*line* [163](#)]

***Function Parameters:***

- **\$value**

**Set the binary value of this ASN.1.**

- **Access public**

*void function* ASN1::setValues(\$values) [*line* [211](#)]

***Function Parameters:***

- **\$values**

**Set the value of this ASN.1 to be a sequence of values.**

- **Access public**

*void function* ASN1::writeByte(&\$buffer, \$byte) [*line* [253](#)]

***Function Parameters:***

- **&\$buffer**
- **\$byte**

**Write a byte to a buffer.**

- **Access** protected

*void* function ASN1::writeBytes(&\$buffer, \$bytes) [*line* [244](#)]

**Function Parameters:**

- **&\$buffer**
- **\$bytes**

**Write bytes to a buffer.**

- **Access** protected

## Class RSAPrivateKey

[*line* [33](#)]

**Class to manage private keys.**

- **Package** phpPoA2
- **Sub-Package** crypto

**RSAPrivateKey::\$bits**

*mixed* = [*line* [38](#)]

- **Access** protected

#### **RSAPrivateKey::\$coefficient**

*mixed* = [[line 45](#)]

- **Access** protected

#### **RSAPrivateKey::\$der**

*mixed* = [[line 36](#)]

- **Access** protected

#### **RSAPrivateKey::\$exponent1**

*mixed* = [[line 43](#)]

- **Access** protected

#### **RSAPrivateKey::\$exponent2**

*mixed* = [[line 44](#)]

- **Access** protected

#### **RSAPrivateKey::\$modulus**

*mixed* = [[line 37](#)]

- **Access** protected

#### **RSAPrivateKey::\$pem**

*mixed* = [[line 35](#)]

- **Access** protected

#### **RSAPrivateKey::\$prime1**

*mixed* = [[line 41](#)]

- **Access** protected

#### **RSAPrivateKey::\$prime2**

*mixed* = [[line 42](#)]

- **Access** protected

#### **RSAPrivateKey::\$private\_exponent**

*mixed* = [[line 40](#)]

- **Access** protected

#### **RSAPrivateKey::\$public\_exponent**

*mixed* = [[line 39](#)]

- **Access** protected

Constructor *void* function RSAPrivateKey::\_\_construct([\$pem = ""]) [[line 50](#)]

**Function Parameters:**

- **\$pem**

**Build a new private key from its PEM representation.**

- **Access** public

*void* function RSAPrivateKey::decode() [[line 92](#)]

**Extract private key details from its DER representation.**

- **Access** protected

*void* function RSAPrivateKey::encode() [[line 120](#)]

**Build a new private key represented by it DER and PEM formats from its modulus and public exponent.**

- **Access** public

*void* function RSAPrivateKey::fromDER(\$der) [[line 59](#)]

**Function Parameters:**



- **\$der**

**Build the private key from its DER representation.**

- **Access** public

*void function* RSAPrivateKey::fromPEM(\$pem) [*line* [74](#)]

**Function Parameters:**

- **\$pem**

**Build the private key from its PEM representation.**

- **Access** protected

*void function* RSAPrivateKey::getBits() [*line* [162](#)]

**Get the length of the key in bits.**

- **Access** public

*void function* RSAPrivateKey::getCoefficient() [*line* [197](#)]

**Get the coefficient of the key.**

- **Access public**

*void function RSAPrivateKey::getDER() [line [134](#)]*

**Get the DER representation of the key.**

- **Access public**

*void function RSAPrivateKey::getExponent1() [line [183](#)]*

**Get the exponent 1 of the key.**

- **Access public**

*void function RSAPrivateKey::getExponent2() [line [190](#)]*

**Get the exponent 2 of the key.**

- **Access public**

*void function RSAPrivateKey::getModulus() [line [141](#)]*

**Get the modulus of the key.**

- **Access public**

*void function RSAPrivateKey::getPEM() [line [127](#)]*

**Get the PEM representation of the key.**

- **Access public**

*void function* RSAPrivateKey::getPrime1() [*line* [169](#)]

**Get the prime 1 of the key.**

- **Access public**

*void function* RSAPrivateKey::getPrime2() [*line* [176](#)]

**Get the prime 2 of the key.**

- **Access public**

*void function* RSAPrivateKey::getPrivateExponent() [*line* [155](#)]

**Get the private exponent of the key.**

- **Access public**

*void function* RSAPrivateKey::getPublicExponent() [*line* [148](#)]

**Get the public exponent of the key.**

- **Access public**

`void function RSAPrivateKey::setCoefficient($coefficient) [line 253]`

***Function Parameters:***

- **\$coefficient**

**Set the coefficient of the key.**

- **Access public**

`void function RSAPrivateKey::setExponent1($exponent) [line 239]`

***Function Parameters:***

- **\$exponent**

**Set the exponent 1 of the key.**

- **Access public**

`void function RSAPrivateKey::setExponent2($exponent) [line 246]`

***Function Parameters:***

- **\$exponent**

**Set the exponent 2 of the key.**

- **Access public**

`void function RSAPrivateKey::setModulus($modulus) [line 204]`

***Function Parameters:***

- **\$modulus**

**Set the modulus of the key.**

- **Access** public

`void function RSAPrivateKey::setPrime1($prime) [line 225]`

***Function Parameters:***

- **\$prime**

**Set the prime 1 of the key.**

- **Access** public

`void function RSAPrivateKey::setPrime2($prime) [line 232]`

***Function Parameters:***

- **\$prime**

**Set the prime 2 of the key.**

- **Access** public

*void* function RSAPrivateKey::setPrivateExponent(\$exponent) [*line* [218](#)]

**Function Parameters:**

- **\$exponent**

**Set the private exponent of the key.**

- **Access** public

*void* function RSAPrivateKey::setPublicExponent(\$exponent) [*line* [211](#)]

**Function Parameters:**

- **\$exponent**

**Set the public exponent of the key.**

- **Access** public

## Class RSAPublicKey

[*line* [38](#)]

**Class to manage public keys.**

- **Package** phpPoA2
- **Sub-Package** crypto

#### RSAPublicKey::\$bits

*mixed* = [[line 44](#)]

- **Access** protected

#### RSAPublicKey::\$der

*mixed* = [[line 41](#)]

- **Access** protected

#### RSAPublicKey::\$exponent

*mixed* = [[line 43](#)]

- **Access** protected

#### RSAPublicKey::\$modulus

*mixed* = [[line 42](#)]

- **Access** protected

#### RSAPublicKey::\$pem

*mixed* = [line [40](#)]

- **Access** protected

Constructor *void* function RSAPublicKey::\_\_construct([\$pem = ""]) [line [49](#)]

**Function Parameters:**

- **\$pem**

**Build a new public key from its PEM representation.**

- **Access** public

*void* function RSAPublicKey::decode() [line [91](#)]

**Extract public key details from its DER representation.**

- **Access** protected

*void* function RSAPublicKey::encode() [line [121](#)]

**Build a new public key represented by it DER and PEM formats from its modulus and public exponent.**

- **Access** public

*void* function RSAPublicKey::fromDER(\$der) [line [58](#)]

**Function Parameters:**



- **\$der**

**Build the public key from its DER representation.**

- **Access** public

*void function RSAPublicKey::fromPEM(\$pem) [line [73](#)]*

**Function Parameters:**

- **\$pem**

**Build the public key from its PEM representation.**

- **Access** protected

*void function RSAPublicKey::getBits() [line [156](#)]*

**Get the length of the key in bits.**

- **Access** public

*void function RSAPublicKey::getDER() [line [135](#)]*

**Get the DER representation of the key.**

- **Access public**

*void function* RSAPublicKey::getExponent() [*line* [149](#)]

**Get the exponent of the key.**

- **Access public**

*void function* RSAPublicKey::getModulus() [*line* [142](#)]

**Get the modulus of the key.**

- **Access public**

*void function* RSAPublicKey::getPEM() [*line* [128](#)]

**Get the PEM representation of the key.**

- **Access public**

*void function* RSAPublicKey::setModulus(\$modulus) [*line* [163](#)]

***Function Parameters:***

- **\$modulus**

**Set the modulus of the key.**

- **Access public**

`void function RSAPublicKey::setPublicExponent($exponent) [line 170]`

***Function Parameters:***

- **\$exponent**

**Set the public exponent of the key.**

- **Access** public

# DBADB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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# GenericDB.php

- **Package** phpPoA2
- **Author** Candido Rodriguez < [candido.rodriguez@rediris.es](mailto:candido.rodriguez@rediris.es)>
- **Version** 2.0
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# GenericMySQLDB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# SessionDB.php

- **Package** phpPoA2
- **Author** Candido Rodriguez < [candido.rodriguez@rediris.es](mailto:candido.rodriguez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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## Class DBADB

[*line* [31](#)]

**Berkeley DB backend.**

- **Package** phpPoA2
- **Sub-Package** GenericDatabaseHandlers

**DBADB::\$mandatory\_options**

*mixed* = array("DBFile") [[line 33](#)]

- **Access** protected

*void* function DBADB::check(\$key) [[line 47](#)]

**Function Parameters:**

- **\$key**

- **Access** public

*void* function DBADB::close() [[line 78](#)]

- **Access** public

*void* function DBADB::configure() [[line 35](#)]

- **Access** protected

*void* function DBADB::delete(\$key) [[line 71](#)]

**Function Parameters:**

- **\$key**

- **Access** public



*void* function DBADB::fetch(\$key) [*line* [57](#)]

***Function Parameters:***

- **\$key**

- **Access** public

*void* function DBADB::fetch\_all() [*line* [61](#)]

- **Access** public

*void* function DBADB::open() [*line* [42](#)]

- **Access** public

*void* function DBADB::replace(\$key, \$value) [*line* [51](#)]

***Function Parameters:***

- **\$key**
- **\$value**

- **Access** public

# Class GenericDB

*[line [31](#)]*

Provides the basic operations and defines the interface of any DB operating class.

- **Package** phpPoA2
- **Sub-Package** GenericDatabaseHandlers
- **Abstract Element**

## GenericDB::\$cfg

*mixed = [line [33](#)]*

- **Access** protected

## GenericDB::\$db

*mixed = [line [35](#)]*

- **Access** protected

## GenericDB::\$error

*mixed = null [line [34](#)]*

- **Access** protected

## GenericDB::\$mandatory\_options

*mixed* = array() [[line 36](#)]

- **Access** protected

Constructor *void* function GenericDB::\_\_construct(\$cfg) [[line 42](#)]

**Function Parameters:**

- *cfg* **\$cfg** A \*Configurator object with the current configuration.

**Main constructor.**

- **Access** public

*boolean* function GenericDB::check(\$key) [[line 76](#)]

**Function Parameters:**

- *key* **\$key** The key to look for.

**Checks if the specified key exists in the database.**

- **Abstract Element**
- **Access** public

*boolean* function GenericDB::close() [[line 69](#)]

**Closes the database.**

- **Abstract Element**
- **Access** public

*boolean* function GenericDB::configure() [[line 54](#)]

**Configure the database handler.**

- **Access** protected

*boolean* function GenericDB::delete(\$key) [[line 105](#)]

**Function Parameters:**

- *key* **\$key** The key to remove.

**Removes the specified key from the database.**

- **Abstract Element**
- **Access** public

*mixed|boolean* function GenericDB::fetch(\$key) [[line 92](#)]

**Function Parameters:**

- *key* **\$key** The key to look for.

**Gets the value of the specified key.**

- **Abstract Element**
- **Access** public

*array* function GenericDB::fetch\_all() [[line 98](#)]

**Gets all the contents stored in the database.**

- **Abstract Element**
- **Access** public

*boolean* function GenericDB::open() [[line 63](#)]

**Opens the database.**

- **Abstract Element**
- **Access** public

*boolean* function GenericDB::replace(\$key, \$value) [[line 85](#)]

**Function Parameters:**

- *key* **\$key** The key to replace.
- *value* **\$value** The new value for the specified key.

**Replaces the specified key with a new value. If the key does not exist previously, it will be created.**

- **Abstract Element**
- **Access** public

# Class GenericMySQLDB

[[line 32](#)]

Generic MySQL database class.

- **Package** phpPoA2
- **Sub-Package** GenericDatabaseHandlers
- **Abstract Element**

## GenericMySQLDB::\$create\_sql

*mixed* = [[line 38](#)]

- **Access** protected

## GenericMySQLDB::\$delete\_sql

*mixed* = [[line 38](#)]

- **Access** protected

## GenericMySQLDB::\$insert\_sql

*mixed* = [[line 38](#)]

- **Access** protected

#### **GenericMySQLDB::\$mandatory\_options**

```
mixed = array("DBHost",  
              "DBUser",  
              "DBPassword",  
              "DBName") [line 34]
```

- **Access** protected

#### **GenericMySQLDB::\$prefix**

```
mixed = [line 39]
```

- **Access** protected

#### **GenericMySQLDB::\$search\_all\_sql**

```
mixed = [line 38]
```

- **Access** protected

#### **GenericMySQLDB::\$search\_sql**

```
mixed = [line 38]
```

- **Access** protected

#### **GenericMySQLDB::\$update\_sql**

```
mixed = [line 38]
```

- **Access** protected

*void* function GenericMySQLDB::check(\$key) [[line 62](#)]

**Function Parameters:**

- **\$key**

*void* function GenericMySQLDB::close() [[line 95](#)]

*void* function GenericMySQLDB::configure() [[line 41](#)]

- **Access** protected

*void* function GenericMySQLDB::delete(\$key) [[line 90](#)]

**Function Parameters:**

- **\$key**

*void* function GenericMySQLDB::fetch(\$key) [[line 78](#)]

**Function Parameters:**

- **\$key**

*void* function GenericMySQLDB::fetch\_all() [[line 84](#)]

*void* function GenericMySQLDB::getError() [[line 58](#)]

*void* function GenericMySQLDB::open() [[line 48](#)]

*void* function GenericMySQLDB::replace(\$key, \$value) [[line 68](#)]

**Function Parameters:**

- **\$key**
- **\$value**



# Class SessionDB

[*line* [33](#)]

## Session database backend.

WARNING: please note that PHP only allows one session at a time, so using this backend will break any applications that make use of sessions beneath.

- **Package** phpPoA2
- **Sub-Package** GenericDatabaseHandlers

## SessionDB::\$session\_name

*mixed* = "session\_db" [*line* [35](#)]

- **Access** protected

*void* function SessionDB::check(\$key) [*line* [41](#)]

### **Function Parameters:**

- **\$key**

- **Access** public

*void* function SessionDB::close() [*line* [99](#)]

- **Access** public

*void* function SessionDB::delete(\$key) [*line* [83](#)]

***Function Parameters:***

- **\$key**

- **Access** public

*void* function SessionDB::fetch(\$key) [*line* [63](#)]

***Function Parameters:***

- **\$key**

- **Access** public

*void* function SessionDB::fetch\_all() [*line* [73](#)]

- **Access** public

*void* function SessionDB::open() [*line* [37](#)]

- **Access** public

*void* function SessionDB::replace(\$key, \$value) [*line* [52](#)]

***Function Parameters:***

- **\$key**
- **\$value**

- **Access public**

# messages-en\_EN.php

- **Package** phpPoA2
- **Sub-Package** Internationalization
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es) >
- **Version** 2.0
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## \$messages

```
array = array(
'fatal-error'      => 'Fatal error',
'error-desc'       => 'There was an unexpected error. Please contact the administrator and specify
the session identifier and backtrace as shown below.',
'error-message'    => 'Error message',
'session-id'       => 'Session identifier',
'backtrace'        => 'Backtrace',

'invalid-php-version' => 'Invalid PHP version. PAPI extension requires at least PHP %s.',
'extension-required' => 'Extension "%s" is required, but it is not loaded.',
'library-required'  => 'Library "%s" is required, but it cannot be found.',
'authenticating-via' => 'Authenticating via the "%s" engine.',
'authorize-user-via' => 'Authorizing user "%s" via the
"%s" engine.',
'query-authz'       => 'Querying for authorization with all available engines.',
'query-authz-via'   => 'Querying for authorization with "%s".',
'authz-engine-err'  => 'Cannot run unknown authorization engine "%s", check
your configuration file.',
'authz-levels-err'  => 'No authorization levels defined for this PoA.'
```

'authn-engine-err' => 'No authentication engine found, check your configuration file.',  
 'check-authn-status' => 'Checking current authentication status via the %s engine.',  
 'invalid-config' => 'Invalid configuration object.',  
 'config-not-found' => 'Cannot configure PoA, configuration file "%s" not found.',  
 'config-err-php' => 'Cannot configure PoA, "%%1\$s" or "%%1\$s[%2\$s]" not set.',  
 'config-err-ini' => 'Cannot configure PoA, "%s" section not found.',  
 'config-param-err' => 'Cannot configure PoA, "%s" param not found.',  
 'cannot-open-log' => 'Cannot open log file "%s".',  
 'cannot-write-log' => 'Cannot write log file "%s".',  
 'class-not-found' => 'Cannot find class "%s".',  
 'authn-success' => 'Successful authentication with the "%s" engine.',  
 'authn-err' => 'Authentication error.',  
 'authz-err' => 'User "%s" not authorized.',  
 'authz-expired' => 'Authorization has expired for user "%s".',  
 'authz-default-fallback' => 'Cannot make any authorization decision, falling to default fallback.',  
 'valid-cookie' => 'The cookie is valid',  
 'cookie-not-found' => 'Cannot find cookie "%s".',  
 'cookie-location-err' => 'Invalid cookie location: "%s".',  
 'cookie-service-err' => 'Service ID "%s" does not match for cookie, should be "%s".',  
 'cookie-expired-err' => 'Expired cookie.',  
 'cookie-rejected-err' => 'Assertion matches rejection cookie filter "%s".',  
 'cannot-set-cookie' => 'Cannot set cookie. Please check no output was already sent to the browser.',  
 'empty-cookie-err' => 'Empty cookie "%s" found.',  
 'empty-response-err' => 'Empty AS/GPoA response.',  
 'pubkey-error' => 'Cannot read public key from file "%s".',  
 'cannot-decrypt' => 'Cannot decrypt response, please check AS/GPoA public key.',  
 'valid-response' => 'AS/GPoA response authenticates assertion "%s".',  
 'expired-response' => 'AS/GPoA response is expired.',  
 'unknown-request' => 'AS/GPoA response received for an unknown request.',  
 'req-db-purged' => 'Purged %d outdated requests from the database.',  
 'redirecting' => 'Redirecting the user to "%s".',  
 'cannot-redirect' => 'Cannot redirect the user.',  
 'cannot-save-request' => 'Cannot save the original request.',  
 'cannot-open-req-db' => 'Cannot open request database.',  
 'cannot-open-authz-db' => 'Cannot open authorized database.',  
 'cannot-open-inv-db' => 'Cannot open invitations database.',  
 'cannot-fetch-key' => 'Cannot find database key "%s".',  
 'cannot-del-key' => 'Cannot delete database key "%s".',  
 'as-id-error' => 'Authentication Server identifier "%s" does not match with expected "%s".',  
 'continue' => 'Continue',  
 'source-ip-allowed' => 'The source IP "%s" matches allowed filter "%s".',  
 'source-ip-denied' => 'The source IP "%s" matches denial filter "%s".',  
 'invalid-hook' => 'Trying to set hook "%s" with an invalid function or method.',  
 'running-hook' => 'Running hook "%s" for "%s".',  
 'add-hook' => 'Adding hook "%s" for "%s".',  
 'remove-hook' => 'Removing hook "%s" for "%s".',  
 'hook-error' => 'Invalid hook "%s".',  
 'allowed-param-match' => 'The following request parameters are allowed: [%s].',  
 'denied-param-match' => 'The following request parameters are denied: [%s].',  
 'allowed-attr-match' => 'The following user attributes are allowed: [%s].',  
 'denied-attr-match' => 'The following user attributes are denied: [%s].',

```

'invite-non-existent' => 'Cannot find invitation with reference "%.".',
'missing-attrs'      => 'None of the mandatory attributes were found.',
'missing-mail-attr'  => 'Cannot find "%." attribute, e-mail verification failed.',
'mail-attr-err'      => 'Email verification attribute unset or empty, verification failed.',
'mail-attr-alg-err'  => 'Cannot extract the algorithm from the attribute "%." with
value "%.".',
'mail-attr-val-err'  => 'Cannot extract the e-mail verification string from the attribute
"%." with value "%.".',
'mail-verify-err'    => 'Cannot verify e-mail "%.", cannot match any of the
received values.',
'mail-verify-ok'     => 'Verification success for e-mail "%." with algorithm
"%." and value "%.".',
'cannot-authorize'   => 'Cannot authorize user "%.".',
'cannot-del-invite'  => 'Cannot remove invite for user "%." with reference
"%.".',
'invite-sent-to'     => 'Invite sent to address "%.".',
'user-authorized'    => 'User "%." is now authorized.',
'user-authz-ok'      => 'User "%." is authorized.',
'user-authz-err'     => 'User "%." is not authorized.',
'user-already-authz' => 'User "%." is already authorized.',
'slo-conf-error'     => 'Cannot perform single logout, please review configuration.',
'already-logged-out' => 'User was not authenticated.',
'local-logout-success' => 'User was successfully logged out.',
'slo-logout'        => 'Single logout requested.',
'slo-requested'     => 'User requested single logout.',
) [line 42]

```

**An array with all the internationalized messages used by phpPoA2.**

- **Name** \$messages

# messages-es\_ES.php

- **Package** phpPoA2
- **Sub-Package** Internationalization
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es) >
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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# AuthorizedDB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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# AuthorizedDBADB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# InviteAuthzEngine.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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```
AUTHORIZED_DBA = 'AuthorizedDBADB' [line 32]  
AUTHORIZED_MYSQL = 'AuthorizedMySQLDB' [line 33]  
AUTHORIZED_SESSION = 'AuthorizedSessionDB' [line 34]  
INVITES_BEFORE_AUTHORIZATION = "INVITES_BEFORE_AUTHORIZATION" [line 48]
```

**This hook is executed right before it is checked whether the user was invited or not to continue with authorization.**

It can be used to trick the engine to believe the user was previously invited (and therefore forcing authorization). The hook receives a boolean parameter representing whether the referenced invitation was found or not.

```
function invitesBeforeAuthorization(&$invite_exists);
```

Please bear in mind that hooks must return TRUE or they'll keep other hooks from executing.

```
INVITES_DBA = 'InviteDBADB' [line 29]
```

**Supported database types.**

```
INVITES_MYSQL = 'InviteMySQLDB' [line 30]  
INVITES_SESSION = 'InviteSessionDB' [line 31]
```

# InviteConfigurator.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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# InviteDB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# InviteDBADB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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## papi1.5-invite-authz.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Sub-Package** InviteAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

include ["./PoA.php"](#)*[line 10]*

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

## Class AuthorizedDB

*[line 31]*

Generic interface for a PAPI request database.

- **Package** phpPoA2
- **Sub-Package** InviteAuthorizationEngine

*void* function AuthorizedDB::replace\_authorization(\$alias, \$attributes, \$email, \$expires) [[line 33](#)]

**Function Parameters:**

- **\$alias**
- **\$attributes**
- **\$email**
- **\$expires**

- **Access** public

## Class AuthorizedDBADB

[[line 31](#)]

**Authorization lists binding to a Berkeley DB backend.**

- **Package** phpPoA2
- **Sub-Package** InviteAuthorizationEngine

### AuthorizedDBADB::\$authorized

*mixed* = [[line 33](#)]

- **Access** protected



## AuthorizedDBADB::\$mandatory\_options

*mixed* = array("AuthorizedDBFile") [*line 34*]

- **Access** protected

*void* function AuthorizedDBADB::fetch(\$key) [*line 51*]

### **Function Parameters:**

- **\$key**

- **Access** public

*void* function AuthorizedDBADB::fetch\_all() [*line 61*]

- **Access** public

*void* function AuthorizedDBADB::open() [*line 36*]

- **Access** public

*void* function AuthorizedDBADB::replace\_authorization(\$alias, \$attributes, \$email, \$expires) [*line 41*]

### **Function Parameters:**

- **\$alias**
- **\$attributes**
- **\$email**
- **\$expires**

- **Access** public

## Class InviteAuthzEngine

[line 55]

Invitation based authorization engine.

- **Package** phpPoA2
- **Sub-Package** InviteAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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**InviteAuthzEngine::\$authz\_db**

*mixed* = [line 57]

- **Access** protected

#### InviteAuthzEngine::\$invites\_db

*mixed* = [line [58](#)]

- **Access** protected

#### InviteAuthzEngine::\$valid\_hooks

*mixed* = array(INVITES\_BEFORE\_AUTHORIZATION) [line [59](#)]

- **Access** protected

*boolean* function InviteAuthzEngine::authorize(\$user, \$attrs, \$ref, [\$expires = 0]) [line [178](#)]

#### **Function Parameters:**

- *user* **\$user**
- *attrs* **\$attrs**
- *ref* **\$ref**
- *expires* **\$expires**

**Authorize the specified user.**

- **Access** public

*void* function InviteAuthzEngine::configure(\$file, \$section) [[line 66](#)]

**Function Parameters:**

- *file* **\$file** The configuration file.
- *section* **\$section** The section of the configuration file to use.

**Configure the authorization engine.**

- **Access** public

*boolean* function InviteAuthzEngine::emailVerify(\$mail, \$attrs) [[line 386](#)]

**Function Parameters:**

- *mail* **\$mail** The e-mail of the user.
- *attrs* **\$attrs** The array of attributes of the user.

**Perform e-mail verification for the current user according to the configuration for this site.**

- **Access** protected

*void* function InviteAuthzEngine::finish(\$value) [[line 460](#)]

**Function Parameters:**

- *value* **\$value** The value that must be returned. @return mixed The first param.

**Close databases and return the same value received as a parameter.**

- **Access** protected

*array* function InviteAuthzEngine::getAuthorizedList() [[line 141](#)]

**Get a list of all authorized users.**

- **Access** public

*array* function InviteAuthzEngine::getPendingInvites() [[line 158](#)]

**Get a list of all pending invitations.**

- **Access** public

*boolean* function InviteAuthzEngine::invite(\$mail, [\$expires = 0]) [[line 325](#)]

**Function Parameters:**

- *mail* **\$mail** The e-mail of the user.
- *expires* **\$expires** The time (POSIX) when authorization will expire. Use 0 if authorization should never expire. Defaults to 0.

**Send an invitation to an e-mail address (that is, send an e-mail to that address with instructions on how to get authorized and an URL to follow).**

- **Access** public

*boolean* function InviteAuthzEngine::isAuthorized(\$user, \$attrs) [[line 88](#)]

**Function Parameters:**

- *user* **\$user** The name of the user to check authorization for.
- *attrs* **\$attrs** The attributes of the user to match his identity.

**Check if the specified user is authorized with the given attributes.**

- **Access** public

*boolean* function InviteAuthzEngine::removeInvite(\$ref) [*line* [365](#)]

**Function Parameters:**

- *ref* **\$ref** The reference to the invite to remove.

**Remove an invitation from the database.**

- **Access** public

*boolean* function InviteAuthzEngine::revoke(\$mail) [*line* [291](#)]

**Function Parameters:**

- **\$mail**

**Revoke authorization for the specified user.**

- **Access** public

# Class InviteConfigurator

[line 31]

Configurator for the Invitation based authorization engine.

- **Package** phpPoA2
- **Sub-Package** InviteAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es) >
- **Version** 2.0
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## InviteConfigurator::\$mandatory\_options

```
mixed = array('InvitesDBType',  
              'AuthorizedDBType',  
              'AdminEmail',  
              'InviteURL',  
              'InviteText',  
              'InviteSubject',  
              'UniqueAttributes') [line 33]
```

- **Access** protected

*void* function InviteConfigurator::doEmailVerify() [*line* [113](#)]

- **Access** public

*string* function InviteConfigurator::getAdminEmail() [*line* [45](#)]

### **Returns**

- **Access** public

*string* function InviteConfigurator::getAuthorizedDBFile() [*line* [188](#)]

### **Returns**

- **Access** public

*string* function InviteConfigurator::getAuthorizedDBHost() [*line* [196](#)]

### **Returns**

- **Access** public

*string* function InviteConfigurator::getAuthorizedDBName() [*line* [220](#)]

### **Returns**



- **Access** public

*string* function InviteConfigurator::getAuthorizedDBPassword() [[line 212](#)]

### **Returns**

- **Access** public

*integer* function InviteConfigurator::getAuthorizedDBType() [[line 180](#)]

### **Returns**

- **Access** public

*string* function InviteConfigurator::getAuthorizedDBUser() [[line 204](#)]

### **Returns**

- **Access** public

*void* function InviteConfigurator::getEmailVerifyAlgRegEx() [[line 102](#)]

- **Access** public

*void* function InviteConfigurator::getEmailVerifyAttribute() [[line 80](#)]

- **Access** public

*void* function InviteConfigurator::getEmailVerifyRegEx() [*line* [91](#)]

- **Access** public

*string* function InviteConfigurator::getInvitesDBFile() [*line* [140](#)]

### **Returns**

- **Access** public

*string* function InviteConfigurator::getInvitesDBHost() [*line* [148](#)]

### **Returns**

- **Access** public

*string* function InviteConfigurator::getInvitesDBName() [*line* [172](#)]

### **Returns**

- **Access** public

*string* function InviteConfigurator::getInvitesDBPassword() [*line* [164](#)]

### **Returns**

- **Access** public

*integer* function InviteConfigurator::getInvitesDBType() [[line 132](#)]

### Returns

- **Access** public

*string* function InviteConfigurator::getInvitesDBUser() [[line 156](#)]

### Returns

- **Access** public

*string* function InviteConfigurator::getInviteSubject() [[line 61](#)]

### Returns

- **Access** public

*string* function InviteConfigurator::getInviteText() [[line 53](#)]

### Returns

- **Access** public

*string* function InviteConfigurator::getInviteURL() [[line 124](#)]

### Returns

- **Access** public

*array* function InviteConfigurator::getUniqueAttributes() [*line* [69](#)]

### Returns

- **Access** public

## Class InviteDB

[*line* [31](#)]

**Generic interface for a database of invites.**

- **Package** phpPoA2
- **Sub-Package** InviteAuthorizationEngine

*void* function InviteDB::replace\_invite(\$key, \$email, \$expires) [*line* [33](#)]

### **Function Parameters:**

- **\$key**
- **\$email**
- **\$expires**

- **Access** public

## Class InviteDBADB

*[line [31](#)]*

Invites binding to a Berkeley DB backend.

- **Package** phpPoA2
- **Sub-Package** InviteAuthorizationEngine

**InviteDBADB::\$invite**

*mixed = [line [33](#)]*

- **Access** protected

**InviteDBADB::\$mandatory\_options**

*mixed = array("InvitesDBFile") [line [34](#)]*

- **Access** protected

*void function InviteDBADB::fetch(\$key) [line [49](#)]*

**Function Parameters:**

- **\$key**

- **Access** public

*void* function InviteDBADB::fetch\_all() [*line* [59](#)]

- **Access** public

*void* function InviteDBADB::open() [*line* [36](#)]

- **Access** public

*void* function InviteDBADB::replace\_invite(\$key, \$email, \$expires) [*line* [41](#)]

***Function Parameters:***

- **\$key**
- **\$email**
- **\$expires**

- **Access** public

# PAPIAuthnEngine.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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`ATTR_SEPARATOR = ","` [[line 29](#)]

**Default assertion delimiters for standard PAPI 1.5 protocol.**

`NAMEVALUE_SEPARATOR = "="` [[line 31](#)]

`NS_PAPI_ATTRIBUTES = 'urn:mace:rediris.es:papi:attributes'` [[line 44](#)]

`NS_PAPI_PROTOCOL = 'urn:mace:rediris.es:papi:protocol'` [[line 43](#)]

**Supported namespaces for attributes.**

`PAPI_ATTRIBUTE_PARSER = "PAPI_ATTRIBUTE_PARSER"` [[line 103](#)]

**This hook is executed when returning the attributes found for a user with `getAttributes()` method. It receives a string with the attributes and the array that results of proccessing the string. Functions for this hook must be defined like this:**  
`function attributeParser($assertion, &$attributes);`

Please bear in mind that hooks must return TRUE or they'll keep other hooks from executing.

PAPI\_CLEAN\_URL = "PAPI\_CLEAN\_URL" *[line 92]*

**This hook is executed when a valid response is found from the AS/GPoA and the engine is about**

to end the authentication result. It receives a boolean value that determines if the URL should be cleaned by means of a redirection to the initial URL. Functions for this hook must be defined like this:

```
function cleanURLHook(&$clean);
```

Please bear in mind that hooks must return TRUE or they'll keep other hooks from executing.

PAPI\_DBA = 'PAPIDBADB' *[line 36]*

**Supported database types.**

PAPI\_MYSQL = 'PAPIMySQLDB' *[line 37]*

PAPI\_REDIRECT\_URL\_FINISH = "PAPI\_REDIRECT\_URL\_FINISH" *[line 69]*

**This hook is executed at the end of the method that returns the URL where to redirect a user.**

It can be used to alter parameters in the URL. The hook receives an array of parameters which should be directly modified. Functions for this hook must be defined like this:

```
function redirectURLFinishHook(&$params);
```

Please bear in mind that hooks must return TRUE or they'll keep other hooks from executing.

PAPI\_RESTORE\_ORIGINAL\_REQUEST = "PAPI\_RESTORE\_ORIGINAL\_REQUEST" *[line 80]*

**This hook is executed when a valid response is found from the AS/GPoA and the original request of the user is about to be restored. It receives an array with the main PHP global variables of the original context. Functions for this hook must be defined like this:**

```
function restoreOriginalRequestHook(&$env);
```

Please bear in mind that hooks must return TRUE or they'll keep other hooks from executing.

PAPI\_SESSION = 'PAPISessionDB' *[line 38]*

PROTO\_ATTR\_AS\_ID = '\_\_asid' *[line 51]*

PROTO\_ATTR\_EXPIRE\_TIME = '\_\_expiretime' *[line 53]*

PROTO\_ATTR\_KEY = '\_\_key' *[line 52]*

PROTO\_ATTR\_PREFIX = '\_papi\_' *[line 50]*

**Prefix for operational attributes inside the protocol and special attributes names.**

REQUEST\_LIFETIME = 300 *[line 58]*

**Default timeout for stored requests.**



```
VALUE_SEPARATOR = "|" [line 30]
```

# PAPIConfigurator.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# PAPIDB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# PAPIDBADB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# PAPIMySQLDB.php

- **Package** phpPoA2

PAPI\_DB\_TABLE = 'requests' *[line 26]*

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es) >
- **Version** 2.0
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# PAPISessionDB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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## papi1.5-authn-attr.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

include ["./PoA.php"](#)*[line 10]*

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

# papi1.5-customattr.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

*void* function handler(\$assertion, &\$attributes) [*line 20*]

**Function Parameters:**

- **\$assertion**
- **&\$attributes**

include ["./PoA.php"](#) [*line 10*]

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)



## papi1.5-papiopoa-hook.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

*void function hook(&\$params) [line [14](#)]*

***Function Parameters:***

- **&\$params**

*include ["./PoA.php"](#) [line [10](#)]*

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

## Class AttributeHandler

*[line [25](#)]*

- **Package** phpPoA2

- **Sub-Package** PAPIAuthenticationEngine

*void function* AttributeHandler::handle(\$assertion, &\$attributes) [*line* [27](#)]

**Function Parameters:**

- **\$assertion**
- **&\$attributes**

- **Access** public

## Class Example

[*line* [20](#)]

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine

*void function* Example::hook(&\$clean) [*line* [21](#)]

**Function Parameters:**

- **&\$clean**

- **Access** public

# Class PAPIAuthnEngine

[[line 111](#)]

**Authentication engine for the PAPI 1.5 protocol.**

PLEASE NOTE THAT THIS ENGINE WORKS ONLY FOR WEB-BASED APPLICATIONS.

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine

## PAPIAuthnEngine::\$assertion

*mixed* = [[line 113](#)]

- **Access** protected

## PAPIAuthnEngine::\$as\_id

*mixed* = [[line 117](#)]

- **Access** protected

## PAPIAuthnEngine::\$attributes

*mixed* = [[line 116](#)]

- **Access** protected

### **PAPIAuthnEngine::\$cfg**

*mixed* = [line [124](#)]

- **Access** protected

### **PAPIAuthnEngine::\$clean\_url**

*mixed* = true [line [126](#)]

- **Access** protected

### **PAPIAuthnEngine::\$cookie\_name**

*mixed* = "PAPILcook\_" [line [128](#)]

- **Access** protected

### **PAPIAuthnEngine::\$crypto**

*mixed* = [line [125](#)]

- **Access** protected

### **PAPIAuthnEngine::\$db**

*mixed* = [line [122](#)]

- **Access** protected

### **PAPIAuthnEngine::\$enforcing**

*mixed* = true [[line 129](#)]

- **Access** protected

### **PAPIAuthnEngine::\$expiration\_time**

*mixed* = false [[line 115](#)]

- **Access** protected

### **PAPIAuthnEngine::\$global\_expire\_time**

*mixed* = [[line 121](#)]

- **Access** protected

### **PAPIAuthnEngine::\$id**

*mixed* = [[line 123](#)]

- **Access** protected

### **PAPIAuthnEngine::\$key**

*mixed* = [[line 118](#)]

- **Access** protected

#### **PAPIAuthnEngine::\$lkey**

*mixed* = [line [119](#)]

- **Access** protected

#### **PAPIAuthnEngine::\$opoa**

*mixed* = "http" [line [130](#)]

- **Access** protected

#### **PAPIAuthnEngine::\$pkey**

*mixed* = [line [120](#)]

- **Access** protected

#### **PAPIAuthnEngine::\$skip\_redirection**

*mixed* = false [line [127](#)]

- **Access** protected

#### **PAPIAuthnEngine::\$status**

*mixed* = [line [114](#)]

- **Access** protected

#### **PAPIAuthnEngine::\$valid\_hooks**

```
mixed = array(PAPI_REDIRECT_URL_FINISH,  
              PAPI_RESTORE_ORIGINAL_REQUEST,  
              PAPI_CLEAN_URL,  
              PAPI_ATTRIBUTE_PARSER) [line 131]
```

- **Access** protected

*void* function PAPIAuthnEngine::attributeQuery(\$name) [*line 401*]

#### **Function Parameters:**

- **\$name**

- **Access** protected

*void* function PAPIAuthnEngine::authenticate() [*line 168*]

- **Access** public

*void* function PAPIAuthnEngine::configure(\$file, \$section) [*line 136*]

#### **Function Parameters:**

- **\$file**
- **\$section**

- **Access** public

*true* function PAPIAuthnEngine::deleteCookie() [*line* [456](#)]

**Delete the current cookie, if any.**

- **Access** protected

*boolean* function PAPIAuthnEngine::deleteRequest(\$key) [*line* [738](#)]

**Function Parameters:**

- *key* **\$key** The key that identifies the request.

**Delete a request from the request database.**

- **Access** protected

*void* function PAPIAuthnEngine::getAttribute(\$name, [\$namespace = NS\_PAPI\_ATTRIBUTES]) [*line* [336](#)]

**Function Parameters:**

- **\$name**
- **\$namespace**

- **Access** public



*void* function PAPIAuthnEngine::getAttributes() [[line 308](#)]

- **Access** public

*string* function PAPIAuthnEngine::getNewCookie() [[line 763](#)]

**Generate a new cookie for the current user.**

- **Access** protected

*string* function PAPIAuthnEngine::getRedirectLocation() [[line 597](#)]

**Retrieve the URL where to redirect a user and store his request.**

- **Access** protected

*string* function PAPIAuthnEngine::getSingleLogoutLocation() [[line 557](#)]

**Retrieve the URL where to redirect a user to perform a single logout.**

- **Access** protected

*string* function PAPIAuthnEngine::getSingleLogoutResponseLocation() [[line 581](#)]

**Retrieve the URL where to redirect a user once he has successfully logged out.**

- **Access** protected

*void* function PAPIAuthnEngine::isAuthenticated() [[line 298](#)]

- **Access** public

*boolean* function PAPIAuthnEngine::isSafe() [[line 775](#)]

**Determines if it's safe to assume the user as authenticated.**

- **Access** protected

*hash* function PAPIAuthnEngine::loadRequest(\$key) [[line 694](#)]

**Function Parameters:**

- **key** **\$key** The key that identifies the request.

**Load a request from the request database.**

- **Access** protected

*void* function PAPIAuthnEngine::logout([\$slo = false]) [[line 366](#)]

**Function Parameters:**

- **\$slo**

- **Access** public

`void` function `PAPIAuthnEngine::redirect`(`[$location = ""]`) [*line* [537](#)]

**Function Parameters:**

- *location* **\$location** If set, the location where to redirect the user. If not, defaults are used.

**Redirect user browser to the appropriate URL for authentication.**

WARNING: This method ends execution.

- **Access** protected

*string/boolean* function `PAPIAuthnEngine::saveRequest`(`$key`, `$hli`) [*line* [666](#)]

**Function Parameters:**

- *key* **\$key** The key identifier for this request.
- *hli* **\$hli** The home locator identifier that should be used for this request.

**Save a request to the request database. The request includes: `$_REQUEST`, `$_GET`, `$_POST`, `$_SERVER['QUERY_STRING']`, `$_SERVER['REQUEST_METHOD']` and `php://input`.**

- **Access** protected

*boolean* function `PAPIAuthnEngine::testCookie`(`[$name = ""]`) [*line* [413](#)]

**Function Parameters:**

- *cookie* **\$name** The cookie.

**Check if a cookie is valid.**

- **Access** protected

*boolean* function PAPIAuthnEngine::testResponse(\$data, \$pubkey) [*line* [478](#)]

**Function Parameters:**

- *data* **\$data** The data received.
- *key* **\$pubkey** The public key of the AS/GPoA.

**Check the response from the AS/GPoA.**

- **Access** protected

## Class PAPIConfigurator

[*line* [31](#)]

**Configurator class for the PAPI Authentication Engine.**

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine

**PAPIConfigurator::\$mandatory\_options**

```
mixed = array('Location',
               'CookieDomain',
               'LKey',
```

```
'PubKeyFile',  
'CookieTimeout',  
'DBType',  
'RedirectURL',  
'RedirectType') [line 33]
```

- **Access** protected

*string* function PAPIConfigurator::getCookieDomain() [[line 54](#)]

- **Access** public

*integer* function PAPIConfigurator::getCookieTimeout() [[line 78](#)]

- **Access** public

*string* function PAPIConfigurator::getDBFile() [[line 94](#)]

- **Access** public

*string* function PAPIConfigurator::getDBHost() [[line 102](#)]

- **Access** public

*string* function PAPIConfigurator::getDBName() [[line 126](#)]

- **Access** public

*string* function PAPIConfigurator::getDBPassword() [*line [118](#)*]

- **Access** public

*string* function PAPIConfigurator::getDBPrefix() [*line [134](#)*]

- **Access** public

*integer* function PAPIConfigurator::getDBType() [*line [86](#)*]

- **Access** public

*string* function PAPIConfigurator::getDBUser() [*line [110](#)*]

- **Access** public

*string* function PAPIConfigurator::getFriendlyName() [*line [185](#)*]

- **Access** public

*string* function PAPIConfigurator::getHomeLocatorID() [*line [169](#)*]

- **Access** public

*string* function PAPIConfigurator::getID() [*line [177](#)*]

- **Access** public

*string* function PAPIConfigurator::getLKey() [[line 62](#)]

- **Access** public

*string* function PAPIConfigurator::getLocation() [[line 46](#)]

- **Access** public

*string* function PAPIConfigurator::getLogoutURL() [[line 193](#)]

- **Access** public

*string* function PAPIConfigurator::getPubKeyFile() [[line 70](#)]

- **Access** public

*integer* function PAPIConfigurator::getRedirectType() [[line 150](#)]

- **Access** public

*string* function PAPIConfigurator::getRedirectURL() [[line 142](#)]

- **Access** public

*seconds* function PAPIConfigurator::getRequestLifetime() [[line 201](#)]

- **Access** public

## Class PAPIDB

[[line 31](#)]

**Generic interface for a PAPI request database.**

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine

the function PAPIDB::purge(\$gap) [[line 41](#)]

**Function Parameters:**

- **gap \$gap** The maximum gap to consider a request outdated, between the time it was stored and the current time.

**Purge the database of outdated requests.**

- **Access** public

void function PAPIDB::replaceContents(\$key, \$get, \$post, \$request, \$query, \$method, \$input, \$hli) [[line 33](#)]

**Function Parameters:**

- **\$key**
- **\$get**



- **\$post**
- **\$request**
- **\$query**
- **\$method**
- **\$input**
- **\$hli**

- **Access** public

## Class PAPIDBADB

*[line [31](#)]*

**PAPI binding to a Berkeley DB backend.**

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine

**PAPIDBADB::\$context**

*mixed = [line [33](#)]*

- **Access** protected

*void function* PAPIDBADB::fetch(\$key) [*line* [50](#)]

***Function Parameters:***

- **\$key**
- **Access** public

*void function* PAPIDBADB::purge(\$gap) [*line* [60](#)]

***Function Parameters:***

- **\$gap**
- **Access** public

*void function* PAPIDBADB::replaceContents(\$key, \$get, \$post, \$request, \$query, \$method, \$input, \$hli) [*line* [35](#)]

***Function Parameters:***

- **\$key**
- **\$get**
- **\$post**
- **\$request**
- **\$query**
- **\$method**
- **\$input**
- **\$hli**

- **Access** public

## Class PAPIMySQLDB

*[line 33]*

MySQL database frontend for the PAPI Authentication Engine.

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine

### PAPIMySQLDB::\$context

*mixed = [line 35]*

- **Access** protected

### PAPIMySQLDB::\$prefix

*mixed = "papi\_" [line 36]*

- **Access** protected

Constructor *void* function PAPIMySQLDB::\_\_construct(\$cfg) *[line 38]*

**Function Parameters:**

- **\$cfg**

- **Access** public

*void function PAPIMySQLDB::fetch(\$key) [line 76]*

***Function Parameters:***

- **\$key**

- **Access** public

*void function PAPIMySQLDB::replaceContents(\$key, \$get, \$post, \$request, \$query, \$method, \$input, \$hli) [line 53]*

***Function Parameters:***

- **\$key**
- **\$get**
- **\$post**
- **\$request**
- **\$query**
- **\$method**
- **\$input**
- **\$hli**

- **Access** public

# Class PAPISessionDB

[[line 33](#)]

## PAPI binding to a PHP Session DB backend.

WARNING: please note that PHP only allows one session at a time, so using this backend will break any applications that make use of sessions beneath.

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine

## PAPISessionDB::\$context

*mixed* = [[line 35](#)]

- **Access** protected

*void* function PAPISessionDB::fetch(\$key) [[line 48](#)]

### **Function Parameters:**

- **\$key**

- **Access** public

*void* function PAPISessionDB::replaceContents(\$key, \$get, \$post, \$request, \$query, \$method, \$input) [[line 37](#)]

### **Function Parameters:**

- **\$key**
- **\$get**
- **\$post**
- **\$request**
- **\$query**
- **\$method**
- **\$input**

- **Access public**

# QueryFilterAuthzEngine.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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QUERY\_BEFORE\_FILTERS = "QUERY\_BEFORE\_FILTERS" [*line 37*]

**This hook is executed right after retrieving the current URI, the params (both GET and POST) and the arrays of allowed and denied patterns that will be checked immediately.**

It can be used to alter parameters and the URL, and also to configure the filters on runtime. The hook receives the URI string, an array of parameters, the allowed and the denied patterns. Functions for this hook must be defined like this:

```
function queryBeforeFilterHook(&$uri, &$params, &$allowed, &$denied);
```

Please bear in mind that hooks must return TRUE or they'll keep other hooks from executing.

# QueryFilterConfigurator.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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# papi1.5-query-authz.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Sub-Package** QueryFilterAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

include ["./PoA.php"](#) [line 10]

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

void function queryHook(&\$uri, &\$params, &\$allowed, &\$denied) [line 17]

**Function Parameters:**

- **&\$uri**
- **&\$params**
- **&\$allowed**
- **&\$denied**

# Class QueryFilterAuthzEngine

[line 46]

**Authorization engine that works by checking the query string of the request.**

PLEASE NOTE THAT THIS ENGINE SILENTLY IGNORES BOTH USER AND ATTRIBUTES. PLEASE NOTE THAT THIS ENGINE WORKS ONLY FOR WEB-BASED APPLICATIONS.

- **Package** phpPoA2
- **Sub-Package** QueryFilterAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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## QueryFilterAuthzEngine::\$valid\_hooks

*mixed* = array(QUERY\_BEFORE\_FILTERS) [line 48]

- **Access** protected

*void* function QueryFilterAuthzEngine::authorize(\$user, \$attrs, \$ref, [\$expires = 0]) [line 97]

### **Function Parameters:**

- **\$user**

- **\$attrs**
- **\$ref**
- **\$expires**

- **Access** public

*void* function QueryFilterAuthzEngine::getAuthorizedList() [*line* [90](#)]

- **Access** public

*void* function QueryFilterAuthzEngine::isAuthorized(\$user, \$attrs) [*line* [53](#)]

***Function Parameters:***

- **\$user**
- **\$attrs**

**PLEASE NOTE THAT THIS ENGINE SILENTLY IGNORES BOTH USER AND ATTRIBUTES.**

- **Access** public

*void* function QueryFilterAuthzEngine::revoke(\$mail) [*line* [101](#)]

***Function Parameters:***

- **\$mail**

- **Access** public

## Class QueryFilterConfigurator

[line 31]

Configurator for the query filter authorization engine.

- **Package** phpPoA2
- **Sub-Package** QueryFilterAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es) >
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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### QueryFilterConfigurator::\$mandatory\_options

*mixed* = array("Allowed", "Denied") [line 33]

- **Access** protected

*array* function QueryFilterConfigurator::getAllowedPatterns() [*line* [39](#)]

**Returns the patterns that match allowed URIs or query parameters.**

- **Access** public

*array* function QueryFilterConfigurator::getDeniedPatterns() [*line* [47](#)]

**Returns the patterns that match denied URIs or query parameters.**

- **Access** public

# SimpleSAMLphpAuthnEngine.php

- **Package** phpPoA2

NS\_SAML2\_PROTOCOL = 'urn:oasis:names:tc:SAML:2.0:protocol' *[line 30]*

## **Supported namespaces for attributes.**

require\_once "simplesamlphp/lib/\_autoload.php" *[line 26]*

- **Author** Elena Lozano < [elena.lozano@rediris.es](mailto:elena.lozano@rediris.es) >
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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## Class SimpleSAMLphpAuthnEngine

*[line 38]*

**Authentication engine for the PAPI 1.5 protocol.**

PLEASE NOTE THAT THIS ENGINE WORKS ONLY FOR WEB-BASED

## APPLICATIONS.

- **Package** phpPoA2
- **Sub-Package** SimpleSAMLphpAuthnEngine

### SimpleSAMLphpAuthnEngine::\$attributes

*mixed = [line 42]*

- **Access** protected

### SimpleSAMLphpAuthnEngine::\$simplesaml

*mixed = [line 40]*

- **Access** protected

### SimpleSAMLphpAuthnEngine::\$status

*mixed = [line 41]*

- **Access** protected

*void function SimpleSAMLphpAuthnEngine::authenticate() [line 55]*

- **Access** public

*void function SimpleSAMLphpAuthnEngine::configure(\$file, \$site) [line 44]*

**Function Parameters:**

- **\$file**
- **\$site**

- **Access** public

*void function SimpleSAMLphpAuthnEngine::getAttribute(\$name, [\$namespace = NS\_SAML2\_PROTOCOL]) [line 75]*

**Function Parameters:**

- **\$name**
- **\$namespace**

- **Access** public

*void function SimpleSAMLphpAuthnEngine::getAttributes() [line 71]*

- **Access** public

*void function SimpleSAMLphpAuthnEngine::isAuthenticated() [line 67]*

- **Access** public

*void function SimpleSAMLphpAuthnEngine::logout([\$slo = false]) [line 83]*



***Function Parameters:***

- **\$slo**
- **Access** public

# SourceIPAddrAuthzEngine.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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SOURCEADDR\_BEFORE\_FILTERS = "SOURCEADDR\_BEFORE\_FILTERS" [*line 37*]

**This hook is executed right after retrieving source address and the arrays of allowed and denied patterns that will be checked immediately.**

It can be used to alter the source address, and also to configure the filters on runtime. The hook receives the source IP address, the allowed and the denied patterns. Functions for this hook must be defined like this:

```
function ipBeforeFilterHook(&$ipaddr, &$allowed, &$denied);
```

Please bear in mind that hooks must return TRUE or they'll keep other hooks from executing.

# SourceIPAddrConfigurator.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# papi1.5-ip-authz.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Sub-Package** SourceIPAddrAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

include ["./PoA.php"](#) *[line 10]*

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

void function ipHook(&\$ip, &\$allowed, &\$denied) *[line 14]*

**Function Parameters:**

- **&\$ip**
- **&\$allowed**
- **&\$denied**

## Class SourceIPAddrAuthzEngine

*[line 46]*

## Authorization engine that works by checking the source IP address of the request.

PLEASE NOTE THAT THIS ENGINE SILENTLY IGNORES BOTH USER AND ATTRIBUTES. PLEASE NOTE THAT THIS ENGINE WORKS ONLY FOR WEB-BASED APPLICATIONS.

- **Package** phpPoA2
- **Sub-Package** SourceIPAddrAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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### SourceIPAddrAuthzEngine::\$valid\_hooks

*mixed* = array(SOURCEADDR\_BEFORE\_FILTERS) [*line* [48](#)]

- **Access** protected

*void* function SourceIPAddrAuthzEngine::authorize(\$user, \$attrs, \$ref, [\$expires = 0]) [*line* [103](#)]

#### **Function Parameters:**

- **\$user**
- **\$attrs**

- **\$ref**
- **\$expires**

- **Access** public

*void* function SourceIPAddrAuthzEngine::getAuthorizedList() [*line* [96](#)]

- **Access** public

*void* function SourceIPAddrAuthzEngine::isAuthorized(\$user, \$attrs) [*line* [53](#)]

***Function Parameters:***

- **\$user**
- **\$attrs**

**PLEASE NOTE THAT THIS ENGINE SILENTLY IGNORES BOTH USER AND ATTRIBUTES.**

- **Access** public

*void* function SourceIPAddrAuthzEngine::revoke(\$mail) [*line* [107](#)]

***Function Parameters:***

- **\$mail**

- **Access** public

## Class SourceIPAddrConfigurator

[line [31](#)]

**Configurator class for the Source IP Address Authorization Engine.**

- **Package** phpPoA2
- **Sub-Package** SourceIPAddrAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es) >
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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### SourceIPAddrConfigurator::\$mandatory\_options

*mixed* = array("AllowFrom", "DenyFrom") [line [33](#)]

- **Access** protected

array function SourceIPAddrConfigurator::getAllowed() [[line 39](#)]

**Returns an array of IP addresses or networks that are authorized.**

- **Access** public

array function SourceIPAddrConfigurator::getDenied() [[line 50](#)]

**Returns an array of IP addresses or networks that are not authorized.**

- **Access** public

## Appendix A - Class Trees

Package phpPoA2

### ASN1

- [ASN1](#)

### AttributeHandler

- [AttributeHandler](#)

### AuthorizedDB

- [AuthorizedDB](#)



## Example

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## GenericConfigurator

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  - [AuthenticationEngine](#)
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## PAPICrypt

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## PAPIDB

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## PoA

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## PoAEventHandler

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## PoAException

- Exception
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## PoALog

- [PoALog](#)

## PoAUtils

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## RSAPrivateKey

- [RSAPrivateKey](#)

# RSAPublicKey

- [RSAPublicKey](#)

## INSTALL

### REQUISITES:

- \* PHP >= 5.2.0
- \* PHP-MCRYPT
- \* PHP-DBA (if using DBA backends)
- \* PHP-MYSQL (if using MySQL backends)
- \* SimpleSAMLphp (if using SAML for authentication)

### INSTALLATION:

1. Upgrade/install your PHP to meet the requirements.
2. Copy the package with all files right into your server.
3. Ensure the file PoA.php is in your include path.
4. Put the PoA.conf file in your include path, or set the PHP environment variable "poa\_conf\_file" to point to your PoA.conf file.
5. Configure the PoA.conf file for your PoAs, and any other configuration files you may need. Refer to the samples for more info  
on how to configure each engine.
6. If you are using PHP 5.2.X, then ensure the environment option "zend.ze1\_compatibility\_mode" is off.

## README

phpPoA 2.0

### Contents of the distribution:

README	This file
GPL	Text of the GNU General Public License, applicable to all the software
LICENSE	Copyright information and short text of the license, including responsibility disclaimer
doc	Documentation for this distribution
lib	Auxiliary classes that implement most of the functionality that is shipped with this distribution
messages	Support files for message internationalization
samples	Sample usage files, including configuration
PoA.php	The main class of phpPoA2. Include only this file in your applications
PoAConfigurator.php	The main configuration class
PoAException.php	Generic phpPoA exception implementation
PoALog.php	Logging class

definitions.php    Useful constants  
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<i>A shortcut for the whole authentication and authorization process.</i>	
<a href="#">LitePoA::\$handler</a>	0
<a href="#">LitePoA</a>	0
<i>Class that embeds all functionality (authentication, attribute collection and authorization) in one method, just like older versions of phpPoA.</i>	
<a href="#">LitePoA.php</a>	0

## M

<a href="#">messages-es_ES.php</a>	0
<a href="#">messages-en_EN.php</a>	0

## N

<a href="#">NS_SAML2_PROTOCOL</a>	0
<i>Supported namespaces for attributes.</i>	
<a href="#">NS_PAPI_PROTOCOL</a>	0
<i>Supported namespaces for attributes.</i>	
<a href="#">NS_PAPI_ATTRIBUTES</a>	0
<a href="#">NAMEVALUE_SEPARATOR</a>	0
<a href="#">NOAUTH_ERR</a>	0
<i>Authentication failed error.</i>	

# P

<a href="#">PAPIAuthnEngine::\$status</a>	0
<a href="#">PAPIAuthnEngine::\$valid_hooks</a>	0
<a href="#">PAPIAuthnEngine::attributeQuery()</a>	0
<a href="#">PAPIAuthnEngine::authenticate()</a>	0
<a href="#">PAPIAuthnEngine::\$skip_redirection</a>	0
<a href="#">PAPIAuthnEngine::\$pkey</a>	0
<a href="#">PAPIAuthnEngine::\$id</a>	0
<a href="#">PAPIAuthnEngine::\$key</a>	0
<a href="#">PAPIAuthnEngine::\$lkey</a>	0
<a href="#">PAPIAuthnEngine::\$poa</a>	0
<a href="#">PAPIAuthnEngine::configure()</a>	0
<a href="#">PAPIAuthnEngine::deleteCookie()</a>	0
<i>Delete the current cookie, if any.</i>	
<a href="#">PAPIAuthnEngine::getSingleLogoutLocation()</a>	0
<i>Retrieve the URL where to redirect a user to perform a single logout.</i>	
<a href="#">PAPIAuthnEngine::getSingleLogoutResponseLocation()</a>	0
<i>Retrieve the URL where to redirect a user once he has successfully logged out.</i>	
<a href="#">PAPIAuthnEngine::isAuthenticated()</a>	0
<a href="#">PAPIAuthnEngine::isSafe()</a>	0
<i>Determines if it's safe to assume the user as authenticated.</i>	
<a href="#">PAPIAuthnEngine::getRedirectLocation()</a>	0
<i>Retrieve the URL where to redirect a user and store his request.</i>	
<a href="#">PAPIAuthnEngine::getNewCookie()</a>	0
<i>Generate a new cookie for the current user.</i>	
<a href="#">PAPIAuthnEngine::deleteRequest()</a>	0
<i>Delete a request from the request database.</i>	
<a href="#">PAPIAuthnEngine::getAttribute()</a>	0
<a href="#">PAPIAuthnEngine::getAttributes()</a>	0
<a href="#">PAPIAuthnEngine::\$global_expire_time</a>	0
<a href="#">PAPIAuthnEngine::\$expiration_time</a>	0
<a href="#">PAPI_DB_TABLE</a>	0
<a href="#">PAPISessionDB.php</a>	0
<a href="#">papi1.5-authn-attr.php</a>	0
<i>This is a sample file to demonstrate the functionality of the phpPoA2 package.</i>	
<a href="#">papi1.5-customattr.php</a>	0
<i>This is a sample file to demonstrate the functionality of the phpPoA2 package.</i>	
<a href="#">PAPIMySQLDB.php</a>	0
<a href="#">PAPIDBADB.php</a>	0
<a href="#">PROTO_ATTR_KEY</a>	0
<a href="#">PROTO_ATTR_PREFIX</a>	0
<i>Prefix for operational attributes inside the protocol and special attributes names.</i>	
<a href="#">PAPIConfigurator.php</a>	0
<a href="#">PAPIDB.php</a>	0
<a href="#">papi1.5-papiopoa-hook.php</a>	0
<i>This is a sample file to demonstrate the functionality of the phpPoA2 package.</i>	
<a href="#">PAPIAuthnEngine</a>	0
<i>Authentication engine for the PAPI 1.5 protocol.</i>	
<a href="#">PAPIAuthnEngine::\$cookie_name</a>	0
<a href="#">PAPIAuthnEngine::\$crypto</a>	0
<a href="#">PAPIAuthnEngine::\$db</a>	0

<a href="#">PAPIAuthnEngine::\$enforcing</a>	0
<a href="#">PAPIAuthnEngine::\$clean_url</a>	0
<a href="#">PAPIAuthnEngine::\$cfg</a>	0
<a href="#">PAPIAuthnEngine::\$assertion</a>	0
<a href="#">PAPIAuthnEngine::\$as_id</a>	0
<a href="#">PAPIAuthnEngine::\$attributes</a>	0
<a href="#">PAPIAuthnEngine::loadRequest()</a>	0
<i>Load a request from the request database.</i>	
<a href="#">PAPIAuthnEngine::logout()</a>	0
<a href="#">PAPIDBADB::\$context</a>	0
<a href="#">PAPIDBADB::fetch()</a>	0
<a href="#">PAPIDBADB::purge()</a>	0
<a href="#">PAPIDBADB::replaceContents()</a>	0
<a href="#">PAPIDBADB</a>	0
<i>PAPI binding to a Berkeley DB backend.</i>	
<a href="#">PAPIDB::replaceContents()</a>	0
<a href="#">PAPIConfigurator::getRedirectURL()</a>	0
<a href="#">PAPIConfigurator::getRequestLifetime()</a>	0
<a href="#">PAPIDB</a>	0
<i>Generic interface for a PAPI request database.</i>	
<a href="#">PAPIDB::purge()</a>	0
<i>Purge the database of outdated requests.</i>	
<a href="#">PAPIMySQLDB</a>	0
<i>MySQL database frontend for the PAPI Authentication Engine.</i>	
<a href="#">PAPIMySQLDB::\$context</a>	0
<a href="#">PAPISessionDB::fetch()</a>	0
<a href="#">PAPISessionDB::replaceContents()</a>	0
<a href="#">papi1.5-query-authz.php</a>	0
<i>This is a sample file to demonstrate the functionality of the phpPoA2 package.</i>	
<a href="#">papi1.5-ip-authz.php</a>	0
<i>This is a sample file to demonstrate the functionality of the phpPoA2 package.</i>	
<a href="#">PAPISessionDB::\$context</a>	0
<a href="#">PAPISessionDB</a>	0
<i>PAPI binding to a PHP Session DB backend.</i>	
<a href="#">PAPIMySQLDB::\$prefix</a>	0
<a href="#">PAPIMySQLDB::fetch()</a>	0
<a href="#">PAPIMySQLDB::replaceContents()</a>	0
<a href="#">PAPIConfigurator::getRedirectType()</a>	0
<a href="#">PAPIConfigurator::getPubKeyFile()</a>	0
<a href="#">PAPIConfigurator::getCookieDomain()</a>	0
<a href="#">PAPIConfigurator::getCookieTimeout()</a>	0
<a href="#">PAPIConfigurator::getDBFile()</a>	0
<a href="#">PAPIConfigurator::getDBHost()</a>	0
<a href="#">PAPIConfigurator::\$mandatory_options</a>	0
<a href="#">PAPIConfigurator</a>	0
<i>Configurator class for the PAPI Authentication Engine.</i>	
<a href="#">PAPIAuthnEngine::redirect()</a>	0
<i>Redirect user browser to the appropriate URL for authentication.</i>	
<a href="#">PAPIAuthnEngine::saveRequest()</a>	0
<i>Save a request to the request database. The request includes: \$_REQUEST, \$_GET, \$_POST, \$_SERVER['QUERY_STRING'], \$_SERVER['REQUEST_METHOD'] and php://input.</i>	
<a href="#">PAPIAuthnEngine::testCookie()</a>	0

<i>Check if a cookie is valid.</i>	0
<a href="#">PAPIAuthnEngine::testResponse()</a>	0
<i>Check the response from the AS/GPoA.</i>	
<a href="#">PAPIConfigurator::getDBName()</a>	0
<a href="#">PAPIConfigurator::getDBPassword()</a>	0
<a href="#">PAPIConfigurator::getID()</a>	0
<a href="#">PAPIConfigurator::getLKey()</a>	0
<a href="#">PAPIConfigurator::getLocation()</a>	0
<a href="#">PAPIConfigurator::getLogoutURL()</a>	0
<a href="#">PAPIConfigurator::getHomeLocatorID()</a>	0
<a href="#">PAPIConfigurator::getFriendlyName()</a>	0
<a href="#">PAPIConfigurator::getDBPrefix()</a>	0
<a href="#">PAPIConfigurator::getDBType()</a>	0
<a href="#">PAPIConfigurator::getDBUser()</a>	0
<a href="#">PROTO_ATTR_EXPIRE_TIME</a>	0
<a href="#">PROTO_ATTR_AS_ID</a>	0
<a href="#">PoA::\$authz_engines</a>	0
<a href="#">PoA::\$autoload</a>	0
<a href="#">PoA::\$cfg</a>	0
<a href="#">PoA::\$db_manager</a>	0
<a href="#">PoA::\$authn_engine</a>	0
<a href="#">PoA::\$attributes</a>	0
<a href="#">PAPICrypt::setPrivateKey()</a>	0
<a href="#">PAPICrypt::setPublicKey()</a>	0
<a href="#">PAPICrypt::setSymmetricKey()</a>	0
<a href="#">PoA</a>	0
<i>Standard class that implements all the functionality of the phpPoA.</i>	
<a href="#">PoA::\$handler</a>	0
<a href="#">PoA::\$local_site</a>	0
<a href="#">PoA::getAttribute()</a>	0
<i>Get the value (or values) of an attribute, if present.</i>	
<a href="#">PoA::getAttributes()</a>	0
<i>Retrieve the attributes provided by the user when logged in.</i>	
<a href="#">PoA::getAuthorizationEngines()</a>	0
<i>Returns the authorization engines configured for the current PoA, or the one specified.</i>	
<a href="#">PoA::getAuthorizationLevels()</a>	0
<i>Get the authorization levels that match for the user specified, according to the configuration.</i>	
<a href="#">PoA::clean()</a>	0
<a href="#">PoA::authorize()</a>	0
<i>Authorize a given subject with the data retrieved from federated login.</i>	
<a href="#">PoA::\$log</a>	0
<a href="#">PoA::addHook()</a>	0
<i>Attach a hook object to the appropriate entry point of the available authentication or authorization engines.</i>	
<a href="#">PoA::authenticate()</a>	0
<i>Perform a federated login for the user.</i>	
<a href="#">PAPICrypt::initializeAES()</a>	0
<a href="#">PAPICrypt::initialize3DES()</a>	0
<a href="#">papi1.5-slo-extra.php</a>	0
<i>This is a sample file to demonstrate the functionality of the phpPoA2 package.</i>	
<a href="#">papi1.5-slo.php</a>	0
<i>This is a sample file to demonstrate the functionality of the phpPoA2 package.</i>	



<a href="#">PAPICrypt</a>	0
<i>Cryptographic routines for PAPI protocol v1.</i>	
<a href="#">PAPICrypt::\$privkey</a>	0
<a href="#">PoAUtills.php</a>	0
<a href="#">PoALog.php</a>	0
<a href="#">PoA.php</a>	0
<a href="#">PoAConfigurator.php</a>	0
<a href="#">PoAEventHandler.php</a>	0
<a href="#">PoAException.php</a>	0
<a href="#">PAPICrypt::\$privkeylen</a>	0
<a href="#">PAPICrypt::\$pubkey</a>	0
<a href="#">PAPICrypt::encrypt()</a>	0
<a href="#">PAPICrypt::encrypt3DES()</a>	0
<a href="#">PAPICrypt::encryptAES()</a>	0
<a href="#">PAPICrypt::endSymmetric()</a>	0
<a href="#">PAPICrypt::decryptAES()</a>	0
<a href="#">PAPICrypt::decrypt3DES()</a>	0
<a href="#">PAPICrypt::\$pubkeylen</a>	0
<a href="#">PAPICrypt::\$symmetric</a>	0
<a href="#">PAPICrypt::decrypt()</a>	0
<a href="#">PoA::isAuthenticated()</a>	0
<i>Query the current status of the user in the federation.</i>	
<a href="#">PoA::isAuthorized()</a>	0
<i>Perform authorization for the a given subject.</i>	
<a href="#">PoALog::write()</a>	0
<i>Write a message to the log file if the current log level allows it.</i>	
<a href="#">PoAUtills</a>	0
<a href="#">PoAUtills::lang_code()</a>	0
<i>Return the language code identifying applicable to a messages file.</i>	
<a href="#">PoAUtills::msg()</a>	0
<i>Return the internationalized message identified by the code 's'.</i>	
<a href="#">PoALog::getLogLevel()</a>	0
<i>Get the current log level.</i>	
<a href="#">PoALog</a>	0
<i>A simple class to write log messages to a file.</i>	
<a href="#">PoAEventHandler::setDebug()</a>	0
<i>Set debugging mode.</i>	
<a href="#">PoAEventHandler::setLogger()</a>	0
<i>Set the logger.</i>	
<a href="#">PoAException</a>	0
<i>Exception handler class for the phpPoA.</i>	
<a href="#">PoAException::__toString()</a>	0
<a href="#">papi1.5-attr-authz.php</a>	0
<i>This is a sample file to demonstrate the functionality of the phpPoA2 package.</i>	
<a href="#">PUBLIC KEY OID</a>	0
<i>The OID for public keys.</i>	
<a href="#">PAPI MYSQL</a>	0
<a href="#">PAPI REDIRECT_URL_FINISH</a>	0
<i>This hook is executed at the end of the method that returns the URL where to redirect a user.</i>	
<a href="#">PAPI RESTORE_ORIGINAL_REQUEST</a>	0
<i>This hook is executed when a valid response is found from the AS/GPoA and the original request of the user is about to be restored. It receives an array with the main PHP global variables</i>	

of the original context. Functions for this hook must be defined like this:	
<a href="#">PAPI_SESSION</a>	0
<a href="#">PAPI_DBA</a>	0
Supported database types.	
<a href="#">PAPI_CLEAN_URL</a>	0
This hook is executed when a valid response is found from the AS/GPoA and the engine is about	
<a href="#">papi1.5-invite-authz.php</a>	0
This is a sample file to demonstrate the functionality of the phpPoA2 package.	
<a href="#">PAPIAuthnEngine.php</a>	0
<a href="#">PAPI_ATTRIBUTE_PARSER</a>	0
This hook is executed when returning the attributes found for a user with <code>getAttributes()</code> method. It receives a string with the attributes and the array that results of processing the string. Functions for this hook must be defined like this:	
<a href="#">PoAEventHandler::exceptionHandler()</a>	0
A generic exception handler that logs the exception message.	
<a href="#">PoAEventHandler::errorHandler()</a>	0
A generic error handler that logs the error message.	
<a href="#">PoAConfigurator::getAuthnEngine()</a>	0
<a href="#">PoAConfigurator::getAuthnEngineConfFile()</a>	0
<a href="#">PoAConfigurator::getAuthzEngineConfFile()</a>	0
<a href="#">PoAConfigurator::getAuthzEngines()</a>	0
<a href="#">PoAConfigurator::\$mandatory_options</a>	0
<a href="#">PoAConfigurator</a>	0
Main configurator for the phpPoA.	
<a href="#">PoA::logout()</a>	0
Remove the user's session and trigger a logout for the specified authentication protocol.	
<a href="#">PoA::removeHook()</a>	0
Remove a hook from the specified entry point of the available authentication or authorization engines.	
<a href="#">PoA::revoke()</a>	0
Revoke authorization for a given subject identified by an e-mail.	
<a href="#">PoAConfigurator::getAuthzLevels()</a>	0
<a href="#">PoAConfigurator::getInviteErrorURL()</a>	0
<a href="#">PoAConfigurator::isDebug()</a>	0
<a href="#">PoAEventHandler</a>	0
Class to handle events inside the library.	
<a href="#">PoAEventHandler::abort()</a>	0
Finish execution and print an error message with the current backtrace.	
<a href="#">PoAEventHandler::autoloadHandler()</a>	0
Override <code>__autoload</code> standard function to allow loading classes dinamically.	
<a href="#">PoAConfigurator::getSystemErrorURL()</a>	0
<a href="#">PoAConfigurator::getNoAuthErrorURL()</a>	0
<a href="#">PoAConfigurator::getLanguage()</a>	0
<a href="#">PoAConfigurator::getLogFile()</a>	0
<a href="#">PoAConfigurator::getLogLevel()</a>	0
<a href="#">PAPICrypt.php</a>	0

## Q

<a href="#">QueryFilterAuthzEngine::revoke()</a>	0
--------------------------------------------------	---

<a href="#">QueryFilterAuthzEngine::isAuthorized()</a>	0
<i>PLEASE NOTE THAT THIS ENGINE SILENTLY IGNORES BOTH USER AND ATTRIBUTES.</i>	
<a href="#">QueryFilterConfigurator</a>	0
<i>Configurator for the query filter authorization engine.</i>	
<a href="#">QueryFilterConfigurator::\$mandatory_options</a>	0
<a href="#">QueryFilterConfigurator::getDeniedPatterns()</a>	0
<i>Returns the patterns that match denied URIs or query parameters.</i>	
<a href="#">QueryFilterConfigurator::getAllowedPatterns()</a>	0
<i>Returns the patterns that match allowed URIs or query parameters.</i>	
<a href="#">QueryFilterAuthzEngine::getAuthorizedList()</a>	0
<a href="#">QueryFilterAuthzEngine::authorize()</a>	0
<a href="#">QueryFilterConfigurator.php</a>	0
<a href="#">QUERY BEFORE FILTERS</a>	0
<i>This hook is executed right after retrieving the current URI, the params (both GET and POST) and the arrays of allowed and denied patterns that will be checked immediately.</i>	
<a href="#">queryHook()</a>	0
<a href="#">QueryFilterAuthzEngine</a>	0
<i>Authorization engine that works by checking the query string of the request.</i>	
<a href="#">QueryFilterAuthzEngine::\$valid_hooks</a>	0
<a href="#">QueryFilterAuthzEngine.php</a>	0

## R

<a href="#">RSAPublicKey</a>	0
<i>Class to manage public keys.</i>	
<a href="#">RSAPrivateKey::setPublicExponent()</a>	0
<i>Set the public exponent of the key.</i>	
<a href="#">RSAPublicKey::\$bits</a>	0
<a href="#">RSAPublicKey::\$der</a>	0
<a href="#">RSAPublicKey::\$modulus</a>	0
<a href="#">RSAPublicKey::\$exponent</a>	0
<a href="#">RSAPrivateKey::setPrivateExponent()</a>	0
<i>Set the private exponent of the key.</i>	
<a href="#">RSAPrivateKey::setPrime2()</a>	0
<i>Set the prime 2 of the key.</i>	
<a href="#">RSAPrivateKey::setExponent1()</a>	0
<i>Set the exponent 1 of the key.</i>	
<a href="#">RSAPrivateKey::setCoefficient()</a>	0
<i>Set the coefficient of the key.</i>	
<a href="#">RSAPrivateKey::setExponent2()</a>	0
<i>Set the exponent 2 of the key.</i>	
<a href="#">RSAPrivateKey::setModulus()</a>	0
<i>Set the modulus of the key.</i>	
<a href="#">RSAPrivateKey::setPrime1()</a>	0
<i>Set the prime 1 of the key.</i>	
<a href="#">RSAPublicKey::\$pem</a>	0
<a href="#">RSAPublicKey::decode()</a>	0
<i>Extract public key details from its DER representation.</i>	
<a href="#">RSAPublicKey::setModulus()</a>	0
<i>Set the modulus of the key.</i>	
<a href="#">RSAPublicKey::getPEM()</a>	0

<i>Get the PEM representation of the key.</i>	0
<a href="#">RSAPublicKey::setPublicExponent()</a>	0
<i>Set the public exponent of the key.</i>	
<a href="#">REQUEST_LIFETIME</a>	0
<i>Default timeout for stored requests.</i>	
<a href="#">README</a>	0
<a href="#">RSAPublicKey::getModulus()</a>	0
<i>Get the modulus of the key.</i>	
<a href="#">RSAPublicKey::getExponent()</a>	0
<i>Get the exponent of the key.</i>	
<a href="#">RSAPublicKey::fromDER()</a>	0
<i>Build the public key from its DER representation.</i>	
<a href="#">RSAPublicKey::encode()</a>	0
<i>Build a new public key represented by it DER and PEM formats     from its modulus and public exponent.</i>	
<a href="#">RSAPublicKey::fromPEM()</a>	0
<i>Build the public key from its PEM representation.</i>	
<a href="#">RSAPublicKey::getBits()</a>	0
<i>Get the length of the key in bits.</i>	
<a href="#">RSAPublicKey::getDER()</a>	0
<i>Get the DER representation of the key.</i>	
<a href="#">RSAPrivateKey::getPublicExponent()</a>	0
<i>Get the public exponent of the key.</i>	
<a href="#">RSAPrivateKey::getPrivateExponent()</a>	0
<i>Get the private exponent of the key.</i>	
<a href="#">RSAPrivateKey::\$modulus</a>	0
<a href="#">RSAPrivateKey::\$exponent2</a>	0
<a href="#">RSAPrivateKey::\$pem</a>	0
<a href="#">RSAPrivateKey::\$prime1</a>	0
<a href="#">RSAPrivateKey::\$private_exponent</a>	0
<a href="#">RSAPrivateKey::\$prime2</a>	0
<a href="#">RSAPrivateKey::\$exponent1</a>	0
<a href="#">RSAPrivateKey::\$der</a>	0
<a href="#">RSAPublicKey.php</a>	0
<a href="#">RSAPrivateKey.php</a>	0
<a href="#">RSAPrivateKey</a>	0
<i>Class to manage private keys.</i>	
<a href="#">RSAPrivateKey::\$bits</a>	0
<a href="#">RSAPrivateKey::\$coefficient</a>	0
<a href="#">RSAPrivateKey::\$public_exponent</a>	0
<a href="#">RSAPrivateKey::decode()</a>	0
<i>Extract private key details from its DER representation.</i>	
<a href="#">RSAPrivateKey::getModulus()</a>	0
<i>Get the modulus of the key.</i>	
<a href="#">RSAPrivateKey::getExponent2()</a>	0
<i>Get the exponent 2 of the key.</i>	
<a href="#">RSAPrivateKey::getPEM()</a>	0
<i>Get the PEM representation of the key.</i>	
<a href="#">RSAPrivateKey::getPrime1()</a>	0
<i>Get the prime 1 of the key.</i>	
<a href="#">RSAPrivateKey::getPrime2()</a>	0
<i>Get the prime 2 of the key.</i>	
<a href="#">RSAPrivateKey::getExponent1()</a>	0

Get the exponent 1 of the key.	0
<a href="#">RSAPrivateKey::getDER()</a>	0
Get the DER representation of the key.	0
<a href="#">RSAPrivateKey::fromDER()</a>	0
Build the private key from its DER representation.	0
<a href="#">RSAPrivateKey::encode()</a>	0
Build a new private key represented by it DER and PEM formats from its modulus and public exponent.	0
<a href="#">RSAPrivateKey::fromPEM()</a>	0
Build the private key from its PEM representation.	0
<a href="#">RSAPrivateKey::getBits()</a>	0
Get the length of the key in bits.	0
<a href="#">RSAPrivateKey::getCoefficient()</a>	0
Get the coefficient of the key.	0
<a href="#">ROOT</a>	0
Authorized DB converter tool from phpPoA1 to phpPoA2.	0

## S

<a href="#">SOURCEADDR_BEFORE_FILTERS</a>	0
This hook is executed right after retrieving source address and the arrays of allowed and denied patterns that will be checked immediately.	0
<a href="#">SourceIPAddrConfigurator.php</a>	0
<a href="#">SourceIPAddrAuthzEngine</a>	0
Authorization engine that works by checking the source IP address of the request.	0
<a href="#">SourceIPAddrAuthzEngine.php</a>	0
<a href="#">SimpleSAMLphpAuthnEngine::logout()</a>	0
<a href="#">SimpleSAMLphpAuthnEngine::getAttributes()</a>	0
<a href="#">SimpleSAMLphpAuthnEngine::isAuthenticated()</a>	0
<a href="#">SourceIPAddrAuthzEngine::\$valid_hooks</a>	0
<a href="#">SourceIPAddrAuthzEngine::authorize()</a>	0
<a href="#">SourceIPAddrConfigurator::\$mandatory_options</a>	0
<a href="#">SourceIPAddrConfigurator::getAllowed()</a>	0
Returns an array of IP addresses or networks that are authorized.	0
<a href="#">SourceIPAddrConfigurator::getDenied()</a>	0
Returns an array of IP addresses or networks that are not authorized.	0
<a href="#">SourceIPAddrConfigurator</a>	0
Configurator class for the Source IP Address Authorization Engine.	0
<a href="#">SourceIPAddrAuthzEngine::revoke()</a>	0
<a href="#">SourceIPAddrAuthzEngine::getAuthorizedList()</a>	0
<a href="#">SourceIPAddrAuthzEngine::isAuthorized()</a>	0
PLEASE NOTE THAT THIS ENGINE SILENTLY IGNORES BOTH USER AND ATTRIBUTES.	0
<a href="#">SimpleSAMLphpAuthnEngine::getAttribute()</a>	0
<a href="#">SimpleSAMLphpAuthnEngine::configure()</a>	0
<a href="#">SessionDB::close()</a>	0
<a href="#">SessionDB::delete()</a>	0
<a href="#">SessionDB::fetch()</a>	0
<a href="#">SessionDB::check()</a>	0
<a href="#">SessionDB::\$session_name</a>	0
<a href="#">SessionDB.php</a>	0
<a href="#">SessionDB</a>	0
Session database backend.	0

<a href="#">SessionDB::fetch_all()</a>	0
<a href="#">SessionDB::open()</a>	0
<a href="#">SimpleSAMLphpAuthnEngine::\$simplesaml</a>	0
<a href="#">SimpleSAMLphpAuthnEngine::\$status</a>	0
<a href="#">SimpleSAMLphpAuthnEngine::authenticate()</a>	0
<a href="#">SimpleSAMLphpAuthnEngine::\$attributes</a>	0
<a href="#">SimpleSAMLphpAuthnEngine</a>	0
<i>Authentication engine for the PAPI 1.5 protocol.</i>	
<a href="#">SessionDB::replace()</a>	0
<a href="#">SimpleSAMLphpAuthnEngine.php</a>	0
<a href="#">SYSTEM_ERR</a>	0
<i>A system related error.</i>	

## T

<a href="#">TAG_SEQUENCE</a>	0
<i>Constructed tags.</i>	
<a href="#">TAG_INTEGER</a>	0
<a href="#">TAG_BOOLEAN</a>	0
<a href="#">TAG_BITSTRING</a>	0
<a href="#">TAG_BER</a>	0
<i>Basic tags.</i>	

## U

<a href="#">USER_ERR</a>	0
<i>An error triggered by the user.</i>	

## V

<a href="#">VALUE_SEPARATOR</a>	0
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